

## Junior Courses--REQUIRED

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### **English III**

(03220300 ENG 3)

11th 1 credit 4.0

*Prerequisite(s): English I, II*

**Course Description:** The third year of English studies is a survey of American literature from the colonial period through the modern era. Special attention will be given to the development of our national literature and the specific characteristics of American literature, especially in comparison to British literature. Students will read representative pieces from all genres. Students will produce at least one essay per nine weeks on a literary subject. In addition, one research paper of no fewer than eight pages on a literary topic will be assigned during the second semester. All writing will conform to MLA style.

### **AP English Language and Composition**

(A3220100 APENGLAN)

11th 1 credit 5.0

*Prerequisite(s): At least two of the following: a minimum grade of 90 in Advanced English II or a minimum grade of 95 in English II, teacher recommendation and a PSAT critical reading and writing score of 610*

**Course Description:** The goal of AP English III is to prepare students for the Advanced Placement Language and Composition examination, which will be administered in May. To that end, students will be challenged with maintaining a college-level pace in reading and writing. Students will be introduced to a variety of both nonfiction and fiction works. Additionally, students will study American literature from the Colonial period to the present. Students will produce at least one essay per nine weeks—both in-class, timed writing and formal, typed essays. The third quarter will focus on the use of secondary sources through one or more research projects.

A student earning a qualifying score on the AP English Language exam may place out of three to six college credit hours.

**Additional Fee:** AP EXAM fee of \$96 (fee may change per College Board decision)

### **Algebraic Reasoning**

(03102540 ALGREAA)

10th -12th 1 credit 4.0

*Prerequisite(s): Algebra 1 and Geometry*

**Course Description:** This course broadens students' knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, numeric and algebraic methods, and modeling from data using tools that build to workforce and college readiness. Students will be required to use technology when appropriate. Students will be required to use technology when appropriate.

**Pre-Calculus**

(03101100 PRE CALC)

11th -12th     1 credit     4.0

*Prerequisite(s): Algebra II*

Course Description: In this course, students will study functions, including polynomial, rational, radical, exponential, logarithmic, trigonometric, and piecewise-defined functions. Students will be able to define functions, describe characteristics of functions and translate among verbal, numerical, graphical, and symbolic representations of functions. Students will model and solve real-life problems using functions, sequences and series, parametric representations, conic sections, and vectors. Students will be required to use graphing calculators when appropriate. This course is strongly recommended for students planning to attend a four-year college.

**Advanced Pre-Calculus**

(03101100 PRECALC ADV)

11th -12th     1 credit     5.0

*Prerequisite(s): Alg 1, Geometry, Alg 2 and At least 2 of the following: math teacher recommendation, a minimum grade of 88 in Advanced Algebra II or a 95 in Algebra II; 550 or higher on PSAT math section*

Course Description: Advanced Precalculus is the study of functions, equations, expressions, sequences and series, and geometry and trigonometry used in problem-solving. This course will present a broader and more in-depth study of the concepts taught in Precalculus. The course is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. In this course students will study functions, sequences and series, parametric representations, conic sections, and vectors. Additional enrichment topics will be introduced in this course. Students will be required to use technology when appropriate. Projects will supplement the class. This course is strongly recommended for students planning to attend a four-year college.

**Physics**

(03050000 PHYSICS)

11th -12th     1 credit     4.0

*Prerequisite(s): Algebra 2 or concurrent enrollment, Biology, and Chemistry*

Course Description: Physics is the study of the physical world and the natural rules governing interaction with it in everyday life. Our goal is trying to understand why these interactions occur in the manner they do. We place emphasis on conceptual understanding, mathematical structure, and problem-solving techniques. Beginning with the scientific method. Physics explores topics in mechanics, motion, mass, energy, force, impact, work, gravity, orbital science, heat, sound, electromagnetism, light, particle physics, and relativity. Students will conduct laboratory experiments and construct mock-ups to demonstrate selected concepts.

**United States History**

(03340100 US HIST)

11<sup>th</sup>     1 credit     4.0

*Prerequisite(s): World Geography or World History*

**Course Description:** This course incorporates the study of significant people, issues, and events that have shaped the development of the American economy, government, politics, and society today. Students will briefly review the early history of the U.S. and major founding documents. Course emphasis is on cause and effect and students will explore time periods such as the Progressive Era, American Imperialism, the Roaring 20s, the World Wars, the Great Depression, the Cold War, and the Modern Era.

### **AP United States History**

(A3340100 APUSHIST)

11th 1 credit 5.0

*Prerequisite(s): World Geography or World History, and at least two of the following: social studies teacher recommendation, a minimum of 90 in World Geography, and PSAT 8/9 ERW score of at least 500*

**Course Description:** This is a survey (overview) course of American History – colonial times to approximately current day. It is designed to provide the student with a college-level academic experience, complete with collegiate materials, and to prepare them for the College Board AP U.S. History test. Successfully passing this exam with a score of three or more may allow the student to get college credit for this high school course. The course will concentrate on social, political, and intellectual history of the United States. Students will work with primary, secondary, and commentary materials. Emphasis is on synthesis of knowledge and critical thinking skills. Class discussion is very important, as are writing skills.

**Additional Fee:** AP EXAM fee of \$96 (fee may change per College Board decision)

### **Theology III**

(Local Course THEO 3)

11<sup>th</sup> 1 credit 4.0

*Prerequisite(s): None*

**Course Description:** Fall Semester: Meeting Jesus in the Sacraments. The purpose of the 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.

Spring Semester: Your Life in Jesus Christ: Christian Morality. The purpose of the course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

### **Health Education**

(03810100 HLTH ED)

9<sup>th</sup>-12<sup>th</sup> 0.5 credit 4.0

*Prerequisites: None*

Using a wellness approach, this course focuses on the major health concerns of teenagers, such as emotional and mental health, the life cycle, sexual education, alcohol and drugs, maintaining physical fitness, nutrition, body systems, and diseases.

**Social Media**

(Catholic Virtual Course SCL MEDIA)

9<sup>th</sup>-12<sup>th</sup>      0.5 credit      4.0

Prerequisite(s): None

This course will teach students that the world of Social Media revolves around them—their actions, decisions, and interests. They will examine how Social Media has evolved. They will understand how to find authenticity and truth within an online world where people can “be” anyone. They will also learn how their digital footprint makes a bigger impression than their physical one. Students will also discover that their voice is important. They are not only a reader—they are a writer. They don’t just follow the news—they report it as a citizen journalist. And they don’t just gather information—they crowdsource it.

## Elective Courses

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**AP Biology**

(A3010200 APBIO)

11th -12th      1 credit      5.0

*Prerequisite(s): Biology, Chemistry and at least two of the following: A minimum grade of 95 in Biology, a minimum PSAT ERW score of 550 and teacher recommendation*

Course Description: Advanced Placement Biology is a higher-level science course designed to offer students a solid foundation in introductory college-level biology. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work. May earn two semesters of credit for college biology with qualifying AP exam score.

Additional Fee: AP EXAM fee of \$96 (fee may change per College Board decision)

**AP Chemistry**

(A3040000 APCHEM)

11th -12th      1 credit      5.0

*Prerequisite(s): Chemistry and Algebra II, concurrent enrollment in pre-Calculus preferred. At least two of the following: science teacher recommendation, a minimum grade of 90 in Chemistry, minimum PSAT math score of 550*

Course Description: Advanced Placement Chemistry is a laboratory-based, higher level science course designed to offer students a solid foundation in introductory college-level chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students will come to understand the nature of the chemical world around us through questioning, experimentation, and analysis. The science practices used in this will enable students to develop and refine testable explanations and predictions of natural phenomena. May earn credit for two semesters of college chemistry with qualifying AP exam score.

Additional Fee: AP EXAM fee of \$96 (fee may change per College Board decision)

**Art I: Introduction to Art**

(03500100 ART 1)

9th -12th      1 credit      4.0

*Prerequisite(s): None*

Course Description: Students will be introduced to the elements and principles of Art, in addition to the foundations of Art: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response. Students will explore a variety of art forms including drawing, painting, and sculpture.

**Art II**

(03500200 ART 2)

10th -12th      1 credit      4.0

*Prerequisite(s): Art I*

Course Description: Students will expand on skills gained in Art I through additional experience in the study of teacher directed media, artists, art history periods, and subject matter. Students should prepare for written, as well as oral critiques for self-assessment. An introductory session of what should be included in a portfolio and how to prepare it will be required.

**Art III**

(03500300 ART 3)

11th -12th      1 credit      4.0

*Prerequisite(s): Art II*

Course Description: Students will expand on skills gained in Art I and II using the student's choice of selected experience in the study of media, artists, art history periods, and subject matter. Students may choose to concentrate their art experiences in the area of drawing, painting, mixed media, sculpture, printmaking, animation or other media. An introductory session of what should be included in a portfolio and how to prepare it will be required.

**Choir**

(Local Credit CHOIR)

9th -12th      1 credit      4.0

*Prerequisites: None*

Students who enter the choral music program will be singing a wide variety of choral music and will be considered vocal ambassadors for Holy Trinity. This will be a performance-based choir who will respond to invitations to sing in public venues, as well as present concerts per year. There will be opportunities for solo and small ensemble work. Students will learn to read music and the basics of sight singing and ear training.

**Debate**

(Local Credit DEBATE)

9th -12th      1 credit      4.0

*Prerequisite(s): Teacher recommendation*

Course Description: Forensics is specifically competitive speech and debate. The Forensics class will focus on getting students ready to compete in a variety of speech and debate events through reading, interpreting, and blocking various literary performance pieces for competition; constructing debate cases on a variety of topics; conducting research for extemporaneous speaking and other events; and performing other administrative duties as necessary. All students will be expected to attend and participate in speech tournaments throughout the year. Students will assist with the hosting of invitational tournaments. The primary goal of the course is to provide students with the necessary skills and confidence to feel comfortable speaking in any situation. *Students will be required to compete in events outside of school hours.*

### **Drama I - Fundamentals of Acting**

(Local Credit DRAMA)

9th -12th      1 credit      4.0

*Prerequisite(s): None*

Course Description: In Drama, students will learn basic principles in stage movement, voice, diction, oral interpretation, and pantomime as well as the vocabulary and history of theater in the Western Canon. Students will practice techniques to overcome stage-fright and develop self-confidence. Students will concentrate on improvisational techniques and acting skills for in-class and public performances. Students will also read a variety of plays representative of different genres and periods of theater history. Through the study of these plays and the presentation of scenes and monologues, students will develop the ability to translate the printed word into a dramatic presentation. This course emphasizes script analysis, vocal and physical preparation, and the creation of a character.

### **Drama II - Intermediate Acting**

(Local Credit DRAMA2)

10th -12th      1 credit      4.0

*Prerequisite(s): Drama I*

Course Description: Students will build upon their experiences from Drama I. Students will prepare scenes and monologues with a special focus on the actor's instrument. Voice and movement techniques will be incorporated into the preparation process.

### **Foundations of Personal Fitness**

(PES00052 PEFOUND)

9th -12th      0.5 credit      4.0

*Prerequisite(s): none*

The purpose of this course is to motivate students to achieve lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course and is exemplified by one of the course objectives: students designing their own personal fitness program as a way to develop the skills necessary to become fit and achieve some degree of fitness within the course.

### **Modern Band**

(Local Credit MDRNBAND)

9th -12th      1 credit      4.0

Prerequisite(s): None

Course Description: Modern band focuses on the development of a student's musicianship using a repertoire of popular music such as rock, pop, reggae, and praise & worship and includes playing, performing, and composing/songwriting. Students will gain a basic understanding of acoustic/electric/bass guitar, drums, keyboards and singing, experiencing how to play each instrument and how each instrument functions within a band setting. Students will have the opportunity to provide input on class repertoire and participate in the decision-making process when picking what music to learn and play. Students will also learn the history of the most popular music genres as well as the basics of music theory.

### **Yearbook**

(Local Credit YRBK)

9th -12th      1 credit      4.0

Prerequisites: None

Yearbook offers the unique opportunity to become part of a team which will produce a complete record of an entire school year. The year begins by planning the coverage for the school year and designing a unifying theme for the book, and finally creating, editing, and submitting the pages created in InDesign. Students learn the essentials of yearbook production including the budgeting, writing, and editing of stories, layout of yearbook pages, and graphic design. *Students will be required to attend school events outside of school hours.*

## **ARCHITECTURE/ENGINEERING TRACK**

### **Smart Cities: Technology and Applications**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

Prerequisite(s): None

A smart city uses Internet of Things sensors and tech to connect components across a city to ultimately improve the lives of citizens. In this course, students will learn about the history and development of smart cities. They will explore how technology are affecting a city's energy, transportation, and government. With rapidly increasing urbanization globally, this field presents a world of career opportunities for students.

### **Project Management**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

Prerequisite(s): None

The Project Management course is intended to identify the key components of a career as a project manager. Students will review the basics in project management terminology, such as designating distinctions among projects, products, programs, and portfolios. They will delve into concepts like managing deliverables and creating engaging relationships with stakeholders. The primary components of project planning will be laid out and described in detail. Students will explore teams and organizational structures. They will discover project management tools and innovation being used in the industry. Overall, they



will develop a greater understanding of the mechanisms that are in place to effectively carry out projects of any size through specific project management techniques.

### ARTS AND COMMUNICATIONS TRACK

#### **Graphic Design**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

*Prerequisite(s): None*

This Graphic Design course is an introduction to elements of design, spatial relationships, typography, and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, web design, and sequential systems. In this course, students will explore the principles and elements of design through visual projects. Students will work with both analog and digital media as they explore two-dimensional and three-dimensional design and color theory. This course will improve students' ability to communicate visually. Students are given the room to express new technical skills in their own creative ways.

#### **Digital Media**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

*Prerequisite(s): None*

Digital Media is a project-based survey of different forms of digital media, such as digital audio, imaging and illustration, movie editing, and animation. The course is oriented toward teaching broad, flexible tools and concepts that are not tied to any one platform or program. Each module ends with a culminating task (such as a podcast or short film). Students will be able to draft and develop projects as they build their skills over each lesson.

### BUSINESS TRACK

#### **Career Exploration in Finance**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

*Prerequisite(s): None*

This course introduces students to the challenging and lucrative world of finance through a review of key financial terms and various groups, positions, and roles within financial institutions. Students learn about resumes, interviews, and networking, and discuss ethics on Wall Street and the role of finance within society.

#### **Introduction to Business**

(Catholic Virtual Course)

9th -12th      0.5 credit      4.0

*Prerequisite(s): None*

This course introduces students to basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.



### HEALTH SCIENCES TRACK

#### **Career Exploration in Healthcare**

(Catholic Virtual Course)

9th -12th .05 credit 4.0

*Prerequisite(s): None*

This course introduces students to the exciting and varied career opportunities in the healthcare industry by introducing roles and tasks, identifying education and skills needed, determining responsibilities of roles which support or supervise positions, and analyze legal and ethical responsibilities, limitations, and implications for each of these professions.

#### **First Aid and Safety**

(Catholic Virtual Course)

9th -12th 0.5 credit 4.0

*Prerequisite(s): None*

In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.

### INFORMATION TECHNOLOGY TRACK

#### **Introduction to Information Technology**

(Catholic Virtual Course)

9th -12th 1 credit 4.0

*Prerequisite(s): None*

This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.