



**Bishop Shanahan High School**  
*People of God; People for Others*

## **COURSE CATALOG**

**2022-2023**

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Office of the Principal

**Bishop Shanahan High School**  
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Dear Parents, Guardians, and Students:

Bishop Shanahan High School offers its students an academic program of excellence which is designed to provide a comprehensive and challenging intellectual experience during their secondary school years. Bishop Shanahan students will find success in the school's curriculum by being curious about subject matter, engaging in all elements of instructional lessons, and exhibiting a work ethic which results in well-crafted and detailed work.

Bishop Shanahan's academic program is most assuredly a college preparatory curriculum, offering a breadth of courses at the college prep, honors, and AP levels. These academic courses will provide our students with an educational foundation that will underpin success in their future collegiate and life pursuits.

This document not only presents descriptions of the courses offered at Bishop Shanahan High School but also guidelines and prerequisites needed as our students progress through the curriculum. It is my hope that this document proves to be informative and helpful.

Sincerely,

Revered John E. Donia  
Principal



Bishop Shanahan High School  
Office for Academic Affairs  
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[rmoran@shanahan.org](mailto:rmoran@shanahan.org)

Your student is about to engage in the course selection process for the 2022-2023 academic year. We encourage students to reflect on their intellectual curiosities, interests, and academic goals as they begin to make decisions about which courses to take next year.

We are very excited to continue two innovative academic initiatives for the 2022-2023 school year: *The STEM Pathways Program* and *The Eagle Business Academy*. Both programs seek to deepen student engagement and enhance preparedness for college and career through student-centered instruction rooted in creative and collaborative problem-solving.

Brand new courses being offered this year include the Business Academy Capstone Project, AP Italian, and American Sign Language. More information about these and all of our courses can be found in this catalog. We are also excited to offer an expanded repertoire of electives in the Business and Social Studies Departments. Of particular interest for rising juniors is the opportunity to take American Studies in place of their traditional ELA and history classes. The course will be a double period each day team-taught by an English teacher and a history teacher. It takes an interdisciplinary approach to studying the history and culture of the United States through the lens of social justice.

Your role as parent or guardian and primary educator in the course selection process is to guide your student on a path of study that will cultivate their talents and intellectual curiosities, and prepare them for success in post-secondary study, citizenship, and career. A good place to start would be to review with your student the information contained in this book regarding required courses and graduation requirements.

All course selection will take place on-line via PowerSchool beginning February 28; at this time, students will select from all courses for which they have met the necessary prerequisites. A student's level is determined by teacher's recommendation, 1<sup>st</sup> semester grade, standardized test scores, and GPA/class rank.

To assist you with an understanding of our placement method, please refer to the explanation listed below.

**AP** Refers to courses that utilize the course of study developed by the Advanced Placement Program of the College Board. All students registered in an AP level course are required to take the AP exam. A separate fee set by the College Board must be paid for the examination. Upon acceptance, the student is committed to the class for the following year and **cannot drop the course after June 15.**

**Honors** Admission based upon past academic achievement in the subject area, teacher recommendation, and department chairperson approval.

**CP** Refers to college preparatory courses.

May you and your student enter into this process prayerfully and seriously. We urge you to seek advice from current teachers, the Guidance Department, and the Office for Academic Affairs throughout the process.

Sincerely,

Dr. Robert Moran, Assistant Principal for Academic Affairs

## REINFORCEMENT OF CURRICULUM

Bishop Shanahan High School aims to develop the whole person by offering a program of studies based on sound educational and Catholic principles. These goals have become part of each Department's operation to inculcate in our students the following:

- A. The Essentials Skills of
  - 1. Critical Reading
  - 2. Clear Writing
  - 3. Oral Communication
  - 4. Problem Solving
  - 5. Critical Thinking
  
- B. A Working Knowledge of
  - 1. Civics
  - 2. Current Events (Domestic and Global)
  - 3. Consumerism
  - 4. Health and Hygiene
  
- C. The Moral and Aesthetic Values of
  - 1. Religion and Ethics
  - 2. Fine Arts
  - 3. Self-esteem
  
- D. The Availability of Enrichment through
  - 1. School Related Activities/Athletics
  - 2. Outside Programs

<b>DEPARTMENT CHAIRPERSONS</b>	
BUSINESS & TECHNOLOGY	Ms. Stephanie DiBello
ENGLISH	Ms. Stephanie Belefonte
FINE ARTS	Mr. Charles Keating
GUIDANCE	Mrs. Beth Saggars
MATHEMATICS	Mrs. Janet Moore
PHYS. ED & HEALTH	Mr. Richard Kauffmann
THEOLOGY	Mr. Joseph Aquilante
SCIENCE	Mrs. Christina Mersereau
SOCIAL STUDIES	Mrs. Stacey Ivkovich
WORLD LANGUAGE	Mrs. Amy Lynch

## THEOLOGY DEPARTMENT

The objectives of Bishop Shanahan's Theology Department are:

- To develop an understanding of the teachings of the Catholic Church concerning the Holy Trinity, the role of Jesus Christ, the Church, grace and human nature, in the light of the Gospel of Christ, and to enable a student to accept the grace to make an intelligent act of faith.
- To foster a personal experience of God on the part of each student by means of the Mass, the Sacraments, prayer, days of recollection and retreat and community service, so as to accept the grace to deepen a commitment to God and neighbor.
- To develop a Catholic Christian community which provides the proper atmosphere for a person to grow into Catholic Christian maturity.
- To provide the environment for a person to accept the grace to establish a vision of morality, of both a personal and social dimension, based on the Gospel teaching and values.

### 111, 112 THEOLOGY I, First Semester

Grade: 9

Credits: 1

Level: Honors & CP

#### The Revelation of Jesus Christ in Scripture

This course helps students understand the Sacred Scriptures. The Bible is the word of God where they encounter the living Word of God, Jesus Christ. Students learn about the Bible, its development and content, and how God is its author. Students focus on the Gospels, where they grow to know and love Jesus more personally.

### 111, 112 THEOLOGY I, Second Semester

Grade: 9

Credits: 1

Level: Honors & CP

#### Who is Jesus Christ?

This course helps students understand the person and message of Jesus Christ. He is the living Word of God, the Second Person of the Blessed Trinity. He is the ultimate Revelation about God, from God. Students penetrate the mystery of the person of Jesus and who he calls them to be.

### 121, 122 THEOLOGY II, First Semester

Grade: 10

Credits: 1

Level: Honors & CP

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

This course helps students understand all that God has done for humanity through his Son, Jesus Christ. God has planned, from all eternity, for human beings to share everlasting happiness with him. This is accomplished only through redemption in Christ. Students inquire about the meaning of being a disciple of Christ.

### 121, 122 THEOLOGY II, Second Semester

Grade: 10

Credits: 1

Level: Honors & CP

#### Jesus Christ's Mission Continues in the Church

This course helps students understand that they encounter the living Jesus Christ in and through the Church. The Church was founded by Christ through the Apostles. It is sustained by him through the Holy Spirit. The Church is the living Body of Christ. Students will explore the Church as a mystery which has both human and divine elements.

**131, 132 THEOLOGY III, First Semester**

**Grade:** 11  
**Credits:** 1  
**Level:** Honors & CP

**Sacraments as Privileged Encounters with Jesus Christ**

This course helps students understand that they can meet Christ today in and through the sacraments. Each sacrament, particularly the Eucharist, is a means to a full and real encounter with Christ. Students examine each sacrament in detail so as to learn how they may encounter Christ throughout life.

**131, 132 THEOLOGY III, Second Semester**

**Grade:** 11  
**Credits:** 1  
**Level:** Honors & CP

**Life in Jesus Christ**

This course helps students understand the moral life. Only in Christ can human beings discover the fullness of life. Disciples of Christ are guided by moral concepts and precepts of Christ and his Church. Students probe these moral teachings and reflect upon their implications.

**136, 137 THEOLOGY III. First and Second Semester (ELECTIVE)**

**Grade:** 11  
**Credits:** 1  
**Level:** Honors

**Faith in Action - Peer Ministry I**

This Peer Ministry course is for students who want to do more for Christ, who want to sustain their prayer and sacramental lives, and who want to become the Christ-like leaders our society needs. They will learn the moral concepts and precepts that govern discipleship while investigating and engaging in practical ministry experiences at school and in the larger church. Specifically, students in this course will be responsible for planning and executing retreats for the school and wider community, prayer services, Masses, service initiatives, and other special events throughout the school year. There will be an application process for this course that will require the approval of the Department Chair. This course will run based on enrollment.

**141, 142 THEOLOGY IV, Living as a Disciple of Jesus Christ**

**Grade:** 12  
**Credits:** .5  
**Level:** Honors & CP

This course is organized around the seven principles of Catholic social teaching. Students will gain an understanding of the roots of social teaching in the Church, its context in the Bible and Catechism, and help teens find their place in the community of the faithful as they advocate for charity and justice in the world. (one semester)

**141, 142 THEOLOGY IV, Responding to the Call of Jesus Christ**

**Grade:** 12  
**Credits:** .5  
**Level:** Honors & CP

The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. Married life, single life, priestly life and consecrated life are explored. Students reflect upon what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community. (one semester)

#### 146 THEOLOGY IV, First and Second Semester (ELECTIVE)

**Grade:** 12

**Credit:** 1 (Students who successfully complete this course will also earn college level theology credit through St. Charles Borromeo seminary).

**Level:** Honors

#### Faith In Action - Peer Ministry II

This Peer Ministry course will help students come to an understanding of the Roman Catholic Church's teachings on social justice and vocations. In addition, students will learn the Christian theology and spirituality of retreats. Students will learn the basic leadership skills in planning, organizing, and facilitating retreats to students of various grade levels at BSHS and beyond. Students will use these skills to lead student facilitated and organized retreats to their peers. Throughout the year, students will put to practice their instruction of Catholic Social Teaching by implementing campus-wide and community social justice education and charity drives. Students will be expected to assume active ministerial roles to their peers and leadership roles on campus. **There will be an application process for this course, with preference given to those students who have successfully completed Peer Ministry I and with approval of the Department Chair.**

### BUSINESS, COMPUTERS, & INFORMATIONAL TECHNOLOGY DEPARTMENT

The objectives of the BCIT Department are:

- To use Christian truths and values as a compass to develop into ethical individuals who will know their worth and respect their fellow citizens.
- To acquire and develop necessary skills and qualifications essential to becoming a productive member of the business, technology and academic communities.
- To present students with instruction that will prepare them for entry-level business and technology occupations and to encourage and prepare them to continue their education.

#### Business Program

#### 771 BUSINESS ACADEMY INTRODUCTION TO BUSINESS / FINANCE

**Grades:** 10 Business Academy Participants Only

**Credits:** 1

**Level:** Honors

**Prerequisite:** Department Approval

The Introduction to Business section of this course introduces students to the world of business and prepares them for the economic roles of consumer, worker, and citizen. Students will gain valuable information and skills that will help prepare them for their future careers. The Finance section focuses on both the business and personal use of financial information. Students will learn how corporations use financial techniques to measure their progress and how society values these corporations and other financial instruments. Students will also gain an understanding of everyday financial decisions such as setting a personal budget, investing, the use of credit, and the impact of taxes.

#### 741 BUSINESS ACADEMY CAPSTONE PROJECT SEMINAR

**Grade:** 12

**Credits:** 1

**Level:** Honors

Seminar Required for all Grade 12 Business Academy Participants This year-long seminar course is designed to allow students in the Business Academy to apply the skills and knowledge they have learned through their participation in the Program. Students will identify real-world problems, develop related research question(s), design and conduct business plans. Through Guest Lectures and working with mentors and on the job related fields, students will rely on critical thinking, collaboration, problem-solving, and communication skills to design and implement a research paper, group project and service program. They will present their final projects to a panel of Shanahan faculty and Business professionals.

### 768/778 MARKETING ESSENTIALS (1st Semester)

**Grades:** 11,12

**Credits:** .5 (One-semester Course)

**Level:** Honors, CP

**Prerequisite:** Department Approval

This semester course is designed to give students interested in a career in marketing, management, design, and sales a preview of university level business courses. In conjunction with the University of Pennsylvania's KWHS, Knowledge at Wharton High School Program, this course provides a basic introduction to the scope and importance of marketing in the global economy. Applying the use of social media to other areas of business, such as customer service and public relations. Emphasis will be placed on oral and written communications, problem solving, and critical thinking skills as they relate to selling, promotion, pricing, purchasing, marketing information management, product/service planning, distribution, financing, business ethics, social responsibility, and risk management. Student progress will be measured through a series of both formative and summative assessments, and a semester long project, in which students will develop a full Marketing proposal and creative visual campaign for an original product, concept, or service. Students enrolled in these courses are encouraged to participate in DECA, where students are challenged and taught to develop key leadership skills, goal setting, collaboration tactics and given project management experience.

### 734/735 SOCIAL MEDIA/DIGITAL ADVERTISING (2nd Semester)

**Grades:** 11, 12

**Credits:** .5 (One-semester Course)

**Level:** Honors, CP

**Prerequisite:** Department Approval

This semester course will provide students the opportunity to study the history and influence of social media while developing integrated marketing communications plans and social media strategies. Social platforms will be explored and skills developed to influence perception and engagement while simulated social media campaigns will be launched and key metrics and analytics will be used to measure success. Students will develop skills related to communication, research, analysis, synthesis and project management while preparing students for social media marketing roles in the workplace. Students create and develop a cumulative social marketing plan portfolio. Students will understand different digital advertising techniques, payment methods for advertising, ways to get advertisements seen online, and different ways that ads are targeted towards users. As well as investigate how social media is used for promotion, engagement of customers, customer service, branding building, item research, and sales.

### 764 BUSINESS ETHICS AND APPLICATIONS (1<sup>ST</sup> Semester)

**Grades:** 12 & Business Academy Participates

**Credits:** .5 (One-semester Course)

**Level:** Honors

**Prerequisite:** 1 Full Credit of Business

This semester course is designed to provide students with the opportunity to discuss, critique, analyze, and connect with current events related to 21<sup>st</sup> Century Business Operations. Students will examine the current local, national, and international business climate. Students will explore the political, economic and social issues driving current business decisions and create alternative business plans incorporating the current consumer climate. Throughout the term, students will research, and present current issues and trends using primary sources. Because the subject of this class is "contemporary," topics will vary considerably depending on the current news cycle. Students will be challenged to defend their opinions on many different issues and connect the current situations to what they have learned *in prior business courses* here at BSHS. Students will regularly be asked to apply concepts and create alternative business scenarios based on the issues presented in class. This class is designed to encourage students to stay connected, apply business concepts learned, and to practice their public speaking skills.

### **779 INTRODUCTION TO BUSINESS (1st Semester)**

**Grades:** 11,12

**Credits:** .5 (One-semester Course)

**Level:** CP

**Prerequisite:** Department Approval

This semester-long Introduction to Business course introduces students to the world of business and prepares them for the economic roles of consumer, worker, and citizen. Course activities involve students in writing, investigating, problem-solving, demonstrating, and reporting. Students will gain valuable information and skills that will help prepare them for their future careers.

### **784 INTRODUCTION TO FINANCE (2nd Semester)**

**Grades:** 11,12

**Credits:** .5 (One-semester Course)

**Level:** CP

**Prerequisite:** Department Approval

This semester-long Finance course focuses on both the business and personal use of financial information. Students will learn how corporations use financial techniques to measure their progress and how society values these corporations and other financial instruments. Students will also gain an understanding of everyday financial decisions such as setting a personal budget, investing, the use of credit, and the impact of taxes.

### **788 BUSINESS MICROECONOMICS (1st Semester)**

**Grade:** 11, 12

**Credits:** .5 (One-semester Course)

**Level:** Honors

**Prerequisite:** Department Approval

The focus of this semester-long course is to enable students to make good economic choices in today's global economy. Introductory topics in microeconomics such as the problems of scarcity, productivity, supply and demand, pricing, consumption, and competition will be examined.

### **789 BUSINESS MACROECONOMICS (2nd Semester)**

**Grade:** 11, 12

**Credits:** .5 (One-semester Course)

**Level:** Honors

**Prerequisite:** Department Approval

The focus of this course is to enable students to make good economic choices in today's global economy. Introductory topics in macroeconomics such as economic systems, monetary policy, interest rates, and national productivity will be examined. Students will also learn about various stock markets, how to analyze their data and study their sensitivity to the global economy.

### **773 INTERNATIONAL BUSINESS (1st Semester)**

**Grades:** 11,12

**Credits:** .5 (One-semester Course)

**Level:** CP

**Prerequisite:** Department Approval

This International Business course provides the foundation for studying international business and conducting business in the global economy. Students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace and are prepared for entry-level international business and marketing occupations.

### 774 HOSPITALITY AND TOURISM (2nd Semester)

**Grades:** 11,12

**Credits:** .5 (One-semester Course)

**Level:** CP

**Prerequisite:** Department Approval

This Hospitality and Tourism course provides an overview of the principles, concepts and systems utilized in the hospitality and tourism industry, including topics such as travel, leisure, foods, and lodging industries. The course will help prepare students for employment and further study in hospitality and other service related industries.

### 736 SPORTS MANAGEMENT (2nd Semester)

**Grades:** 11, 12

**Credits:** .5 (One-semester Course)

**Level:** CP

**Prerequisite:** Department Approval

In conjunction with the University of Pennsylvania's Knowledge at Wharton High School Program, this course examines various business disciplines as they apply to the sports industry, from high school to professional with an overview of the business and legal aspects of various intercollegiate, Olympic and professional sports enterprises. Students ultimately gain insight into the leadership, management, and increasingly global nature of the sports business. The course will help prepare students for college level business programs and introduce them to the many professions in the Sports Industry.

### 252 SPEAK TO LEAD (PUBLIC SPEAKING)

**Grades:** 11, 12

**Credits:** .5

**Level:** Honors

**Course Description:** This course will focus on developing all aspects of rhetoric and oratory so that students become engaging, persuasive, and competent public speakers. Students will delve into different types of public speaking such as persuasive and informative speaking, business presentations, and radio and TV announcing. Students will practice making a variety of formal and informal speeches both individually and with a team, using multimedia resources. Basic workplace etiquette will also be discussed and addressed at various stages throughout the course. This course will increase students' comfort level when speaking in front of a group and improve daily communication and interactive skills (skills they will need the rest of their academic and professional careers) which employers currently rate as the most desired job skill.

## Technology

### 712 INFORMATION TECHNOLOGIES I

**Grade:** 9

**Credits:** .5 (One-semester Course)

**Level:** CP

**Note:** Required

This one semester course focuses on the 21st century technology skills that students will need to succeed in today's increasingly technological world. The students will use the Google Education Suite to collaborate and create digital files such as documents, spreadsheets, forms and presentations. Additionally, the students will be introduced to basic programming concepts, logic and critical thinking skills. Various topics related to ethics, copyright and online communication will be discussed.

### 733 INFORMATION TECHNOLOGIES 2

**Grades:** 11, 12

**Credits:** .5 (One-semester Course)

**Level:** Honors, CP

**Prerequisite:** Department Approval

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students will have the opportunity to use technology to address real-world problems and build relevant solutions. Course work focuses on several innovative aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives. Students will be further prepared to use technology to communicate, collaborate, analyze data and create multimedia.

### 761 HONORS COMPUTER PROGRAMMING

**Grades:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisite:** Department Approval

This course is an introduction to Java, an object-oriented, high level, programming language. Students will be introduced to basic programming concepts such as methods, conditionals, arrays, loops, classes and objects. Students will improve their logical, critical thinking and problem solving skills. Emphasis is placed on Java fundamentals, language syntax, program design and structure, and algorithmic solutions of mathematical problems.

### 689 STEM Capstone Project Seminar

**Grade:** 12

**Credits:** 1

**Level:** Seminar

***Required for all Grade 12 STEM Certificate Program Participants***

This year-long seminar course is designed to allow students in the STEM Certificate Program to apply the skills and knowledge they have learned through participation in the STEM Pathways Program. Students will identify a real-world problem, develop related research question(s), design and conduct research, analyze results, report findings, and if applicable, design a physical solution to the problem. Working with a mentor currently in a STEM related field, students will rely on critical thinking, collaboration, problem-solving, and communication skills to design and implement their project. They will present their final project to a panel of Shanahan faculty and STEM professionals.

### AVLI Technology Courses

*Please note there is an additional fee for AVLI classes. For details see the AVLI section under Special Programs.*

### AVLI AP COMPUTER SCIENCE

**AVAILABLE TO:** Seniors

**CREDITS:** 1 **LEVEL:** AP

**PREREQUISITES:** Students should have successfully completed one course in a programming language such as C, C++, Visual Basic .Net, or Java. Moreover, students should know how to edit, compile, and run a program. This course is a college level introduction to object-oriented programming in Java. Students will focus on a problem-solving approach designed to focus attention on programming algorithms and data structures. Students will be fluent in the syntax and logic structures of the Java programming language as well as familiar with the Java API. Students will attempt difficult programming challenges, reflect on these exercises, and share their discoveries with their peers. In the Spring, students will be eligible to take the AP Computer Science A Exam offered by the College Board at their school. This class will take up a lot of time, so it is recommended have room in their schedule for it.

### **AVLI MULTIMEDIA AUTHORSHIP—THE POWER OF WORDS AND IMAGES**

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

This course aims primarily to develop communication skills through student expression of his or her ideas using multimedia technology. Students will study models of multimedia composition used by professional and student writers and then create their own multimedia content, pushing the students to a mastery of the concepts and technical skills the composition requires. In order to fully participate in the class, the student must have a computer (Mac or Windows) on which he or she can install new programs. They will also need access to a digital camera. The semester will culminate with each student producing an original, substantive multimedia project on a topic of the student's choice.

### **AVLI COMPUTER GAME DEVELOPMENT (2nd Semester)**

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

This course explores the process of game development, the principles of game design, styles/genres of computer games, techniques for game software engineering, and information about the computer game industry. Emphasis will be on pragmatic advice for game designers, together with techniques for game balance and analysis. Students will design and playtest a game as a course project. Group work is emphasized, especially the importance of collaboration between technical and artistic efforts. Students are expected to participate in game development using appropriate game development tools.

### **AVLI DATABASE DEVELOPMENT FOR REAL WORLD PROBLEMS (2nd Semester)**

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

This course introduces students to Microsoft Access in order to teach database and programming concepts and will show how to use Access as a real-world problem-solving tool through the building of an actual database. Access is part of the Microsoft suite and allows you to organize, manage, collect, analyze, and report on data using 'objects' within Access that you learn to design and build. Students will organize and develop a database throughout the course based on an idea from their school or personal life. Past students have built databases on topics as wide ranging as tracking and rating recipes, entering college applications and showing college acceptance/financial aid, and rankings of different brands and types of audio headphones.

## **ENGLISH DEPARTMENT**

The English Department of Bishop Shanahan in accordance with the Common Core Standards will provide students with skills and knowledge to become critical readers and writers through the analysis of key ideas and details, the examination of craft and structure and the integration of knowledge and ideas in literary and informational texts. In addition, a focus on PSAT and SAT Prep are also integrated within the curriculum. Furthermore, a universal writing program is incorporated which scaffolds the skills over the course of a student's four years.

### **ENGLISH LANGUAGE ARTS I: Honors, CP**

**Critical Reading, Writing, and Speaking supported through Genre Studies**

**Grade 9**

English Language Arts I is a required course for all ninth grade students. Students will develop their writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Using the full writing process, students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various literary Genre studies.

## **ENGLISH LANGUAGE ARTS II: Honors, CP**

### **Critical Reading, Writing, and Speaking supported through Genre II Studies**

#### **Grade 10**

English Language Arts II is a required course for all tenth grade students. Reinforcing and expanding the writing objectives of the freshman year, this course will develop the student's writing skills by examining text types and purposes and by writing arguments to support claims in an analysis of substantive topics or texts. Students will write explanatory/informational texts to examine and convey complex ideas, and will write narratives to develop real or imagined experiences or events. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct sustained research projects and will participate in a range of collaborative discussions and presentations integrating multiple sources of information. This course will further advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various selections in Genre II studies.

## **ENGLISH LANGUAGE ARTS III: Honors, CP**

### **Critical Reading, Writing, and Speaking supported through American Studies**

#### **Grade 11**

English Language Arts III is a required course for all eleventh grade students. This course will develop the student's writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various selections in American studies.

## **233 AMERICAN STUDIES**

#### **Grade: 11**

#### **Credit: 1**

#### **Level: Honors and CP**

*This two-credit course fulfills the grade 11 ELA and social studies requirements. Students must complete an application and be accepted.*

This course takes an interdisciplinary approach to studying the history and culture of the United States through the lens of social justice while developing students' writing skills by examining text types and purposes, and by writing arguments, explanatory/informational texts, and narratives. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various selections in American studies. By employing a topical approach, this course will examine the challenges, changes and enduring issues that have marked the development of the United States, beginning with the crisis preceding the Civil War and running through the 21st century.

## **235 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION**

#### **Grade: 11**

#### **Credits: 1**

**Prerequisites:** 90 Average in Honors ELA II, PSAT scores of 600 in Critical Reading and Writing, signed application with essay due on an assigned day in March and Teacher Recommendations. AP Students who are accepted into the 11<sup>th</sup> grade course usually continue into the 12<sup>th</sup> grade AP course.

Advanced Placement English is designed for students who wish to earn college credits in English while still in secondary school. This Advanced Placement course is offered to students recommended and approved by their tenth grade teachers. The course is designed for students who are interested in studying and writing using various rhetorical strategies and devices in preparation for effective literature and writing courses in college. Extensive reading, discussions

and analysis of non-fiction writers are important components of this course. Additionally, preparation for the Advanced Placement exam will be provided throughout the course. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15. All students in AP English Language and Composition must successfully complete the AP exam for consideration to remain in the AP Program.**

#### **ENGLISH LANGUAGE ARTS IV: Honors, CP**

**Critical Reading, Writing, and Speaking supported through British Literature and Contemporary Studies  
Grade 12**

English Language Arts IV is a required course for all twelfth grade students. This course will develop the student's writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.

This course is supported through various selections in British Literature and Contemporary studies.

#### **245 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**

**Grade: 12**

**Credits: 1**

**Prerequisites: 90 Average in Honors ELA III, PSAT scores of 600 in Critical Reading and Writing, signed application with essay due on an assigned day in March and Teacher Recommendations. Most students enrolled have previously completed AP English in 11<sup>th</sup> grade.**

Advanced Placement English Literature is designed for students who wish to earn college credits in English while still in secondary school. Students are involved in both the study and practice of writing and the study of literature. Writing assignments focus on the critical analysis of literature and include essays in exposition and persuasion. With the desired goal of honest, effective use of language and the organization of ideas in a clear, coherent, and persuasive way, students study and write in response to several representative works from various genres and periods. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

#### **252 SPEAK TO LEAD (PUBLIC SPEAKING)**

**Grades: 11, 12**

**Credits: .5**

**Level: Honors**

**Course Description:** This course will focus on developing all aspects of rhetoric and oratory so that students become engaging, persuasive, and competent public speakers. Students will delve into different types of public speaking such as persuasive and informative speaking, business presentations, and radio and TV announcing. Students will practice making a variety of formal and informal speeches both individually and with a team, using multimedia resources. Basic workplace etiquette will also be discussed and addressed at various stages throughout the course. This course will increase students' comfort level when speaking in front of a group and improve daily communication and interactive skills (skills they will need the rest of their academic and professional careers) which employers currently rate as the most desired job skill.

## FINE ARTS DEPARTMENT

### VISUAL ARTS PROGRAM

The purpose of the Art Program is to create through curriculum an atmosphere that will encourage the student to become more creative. To achieve this goal, we strive:

- To provide activities which foster the acquisition of skills while engaging in a wide range of emotional, intellectual, sensory, and aesthetic experiences
- To develop the existing perceptual skills which might provide a broader sense of reality
- To provide visual and manipulative experiences for a deeper understanding of self and of others
- To reveal art as a worthy activity for a life's work as well as provide credible opportunities to serve and to enrich the lives of others in the community.

### 872 RELATED ARTS

**Grade:** 9  
**Credits:** .5 (One-Semester Course)  
**Note:** Required Course

This basic course is designed to develop a positive attitude toward the fine arts - arenas of self-expression. Students are taught to observe, listen, think critically, and form valid opinions. Lectures, films, recordings, and the textbook are the tools used to foster an appreciation for music art, drama, and dance.

### 862 INTRODUCTION TO STUDIO ART

**Grade:** 9  
**Credits:** .5 (One-Semester Course)  
**Level:** CP  
**Prerequisite:** Art Department Approval  
**Note:** This course fulfills the Fine Arts Credit

This course is designed for talented art students who are considering a career in Art. The students will work with a variety of media emphasizing the elements of art. Class size is limited. Admission is granted upon evaluation.

### 851 HONORS DRAWING

**Grades:** 10, 11, 12  
**Credits:** 1  
**Level:** Honors

This course emphasizes the development of drawing skills in a variety of media including pencil, charcoal, pen and ink, chalk, and conte crayon.

### 831 HONORS 2D DESIGN

**Grades:** 10, 11, 12  
**Credits:** 1  
**Level:** Honors  
**Prerequisite:** Introduction to Studio Art or Visual Fundamentals

This course explores the principals of design and begins to introduce conceptual considerations as well as continuing technical proficiency. The students develop technique through practical applications, lectures, demonstrations, and group critiques. Media used will include acrylics, charcoal, pen and ink, watercolor, tempera and gouache.

### 841 HONORS PORTFOLIO PREPARATION

**Grade:** 11  
**Credits:** 1  
**Level:** Honors

**Prerequisite:** Basic Design, Drawing, or 2D Design

This course offering is designed for students displaying a high degree of talent. The course focuses upon the process by which an idea is transformed into a concrete visual image. Projects will be directed toward fulfilling the portfolio requirements for admission to a post-secondary Art School.

### 852 HONORS 3D DESIGN

**Grade:** 10, 11, 12  
**Credits:** 1  
**Level:** Honors

This course focuses on 3D design including in depth work in the ceramic techniques of hand building and wheel throwing as well as other sculpture processes.

### 845; 855; 885 ADVANCED PLACEMENT STUDIO ART: AP 2D DESIGN, AP 3D DESIGN; AP DRAWING

**Grade:** 12  
**Credits:** 1

**Prerequisite:** Honors Portfolio, 2D Design, Drawing or 3D Design and Department Approval

**885 AP DRAWING:** Students will address a very broad interpretation of drawing issues and media.

**845 AP 2D DESIGN:** Students will address two-dimensional design issues. This involves purposeful decision making about how to use the elements and principles of art in an integrative way.

**855 AP 3D DESIGN:** Students will demonstrate their understanding of design principles as they relate to the integration of depth and space, volume and surface as they relate to sculptural issues.

These AP Course electives are for highly motivated students who are seriously interested in the study of art; the program demands significant commitment. It is highly recommended that students have previous training in art. Summer assignments are required. The course content follows the syllabus as dictated by the College Board. All students taking AP Studio Art are required to submit a portfolio to the College Board AP scoring program and to pay the required fee. All students rostered for AP classes are required to pay for and take the AP exam. AP classes may not be dropped after June 15.

### THE MUSIC PROGRAM

The study of music is an integral part of the student's program of learning. It is an area of curriculum concerned with subjective responses, positive growth and is dependent on structured experiences. The music department affords each student the opportunity to develop intellectually and aesthetically. Students are given careful attention so as to discover, develop, and nurture their God-given talents. The department accepts the responsibility to provide comprehensive experience that will foster good self-esteem, good citizens and caring children of God.

### 879 INSTRUMENTAL MUSIC 1

**Grades:** 9, 10, 11, 12  
**Credits:** .5  
**Note:** No quality points

This beginning course is designed for those students with little or no previous experience on a band instrument. The course includes a weekly private lesson with a staff instructor or approved private teacher and a supervised bi-weekly group/ensemble rehearsal. At the completion of this course, students should have achieved a playing level that would qualify them for participation in the concert and/or stage bands.

### 880 INSTRUMENTAL MUSIC 2

**Grades:** 9, 10, 11, 12

**Credits:** .5

**Note:** No quality points

This second level course is designed for those students who have met the requirements of the first level. This course includes a weekly private lesson with an instrumental instructor and a supervised bi-weekly group/ensemble rehearsal. At the completion of this course, students should have achieved a playing level that would qualify them for participation in the concert and/or stage bands, second chair.

### 886 INSTRUMENTAL MUSIC 3

**Grades:** 9, 10, 11, 12

**Credits:** .5

**Note:** No quality points

This intermediate level course is designed for those students who have met the requirements of the second level. This course includes a weekly private lesson with a staff instructor or approved private teacher and membership in the concert and/or stage bands. Attendance at two one and one half (1 ½) hour rehearsals is mandatory. Participation in scheduled performances is required.

### 887 INSTRUMENTAL MUSIC 4

**Grades:** 9, 10, 11, 12

**Credits:** .5

**Note:** No quality points

This advanced level course is designed for those students who have met the requirements of the intermediate level. This course includes a weekly private lesson with a staff instructor or approved private teacher and membership in the concert and/or stage bands. Attendance at two one and one half (1 ½) hour rehearsals is mandatory. Participation in scheduled performances is required. At the end of this course, students should be able to meet the musical qualifications for membership in Festival Bands and maintain a first chair status.

### 881 HONORS MUSIC THEORY I

**Grades:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisite:** Department Approval

Fundamentals of music theory, including notation, vocabulary, intervals, triads, time signatures and major and minor keys are the focus of instruction. Skills developed include sight-singing, ear-training, transposition and part writing. Stress is placed on individual needs and differences. The final is an original composition that is all inclusive of the course content.

### 891 HONORS MUSIC THEORY II

**Grade:** 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Theory I & Department Approval

This rigorous level course of study is intended for those students with exceptional musical skills and self-discipline. Instruction in harmonization, arranging, composition and transposition is designed for those students who wish to pursue a career in music.

### 888 Concert Band ~ Stage Band

**Grades:** 9, 10, 11, 12

**Prerequisite:** Department Approval

Concert Band is required as a laboratory period for all students in Instrumental Music. The curriculum includes attendance at all rehearsals and participation in all public performances (assemblies, concerts, festivals, and school functions). Students meet on Tuesdays and Thursdays after school. (60 minutes per session)

The Stage Band is an ensemble of students, which specializes, in jazz and rock styles. The Stage Band rehearses twice a week after Concert Band. (60 minutes per session)

### 890 Mixed Chorus

**Grades:** 9, 10, 11, 12

**Prerequisite:** Department Approval

Mixed Chorus is an elective offered to develop a worthwhile musical experience. No previous experience is required. It is meant to provide all students, regardless of talent, the opportunity to sing in a musical ensemble using four-part harmony, and is designed to care for, preserve, and develop adolescent/adult voices. The study and performance of choral literature are designed to nurture musical growth. Participation in all performances is required. Rehearsals are held every Monday and Wednesday after school. (60 minutes per session) Students are required to participate in all scheduled performances.

### 896-01 Concert Band

**Grades:** 9, 10, 11, 12

**Credits:** 1

**Level:** Honors, CP

Concert Band is required as a laboratory period for all students in Instrumental Music. The curriculum includes attendance at all rehearsals and participation in all public performances (assemblies, concerts, festivals, football games, and school functions). Students will rehearse during 8th period. To receive Honors credit, the student must complete one of the two listed examples: 1. Audition and acceptance to All Catholic Band or District Band. (Students who audition and are not selected for All Catholic or District Band must complete item number 2 to receive honors credit). 2. Attend Tuesday and Thursday rehearsals after school. (Honors Credit is received for 8th period band class only)

For choir and/or band members in grades 11 or 12, band will replace an elective. For students in grade 10, choir and/or band will take the place of Health/PE. These students will be required to take Health/PE during grade 11. For students in grade 9, choir and/or band will take the place of the Related Arts/Information Technologies 1, one semester courses. This course will fulfill the related arts requirement, but these students will be required to take a full year computer course in grade 11 to fulfill the technology instruction graduation requirement. Students who participate in diocesan and district competitions will receive honors credit for this course.

### String Ensemble

**Grades:** 9, 10, 11, 12

**Prerequisite:** Department Approval

This course is for the student who has with proficiency on his/her instrument in a string orchestra (violin, viola, cello, string bass). Music of increasing difficulty is presented with instruction designed to increase knowledge and understanding of music theory and history, string pedagogy, tone quality and artistic interpretation. String Ensemble is a performing ensemble and participation in all concerts is required. The String Ensemble course also welcomes students who wish to learn a secondary instrument or even those without training who desire to learn a string orchestra instrument. No audition is required to participate in the String Ensemble. The String Ensemble rehearses during homeroom and Tuesday afternoon from 5-6pm

## WORLD LANGUAGE DEPARTMENT

The World Language Department offers Spanish, French, Italian, Mandarin Chinese and Latin. In the global society of the 21<sup>st</sup> century, a second language is an invaluable asset to the individual. The person who speaks and understands more than one language can utilize that skill in various fields such as banking, education, medicine, research, travel, marketing, etc. The study of another language also enhances the ability to understand primary language. Competency in another language can contribute to a better understanding and appreciation of others' social and cultural habits. The World Language Department strives to provide a solid foundation in the basics of the target language while following the recognized *Standards for Foreign Language Learning in the 21<sup>st</sup> Century*. (Lawrence KS: Allen Press, 1999). The World Language Department focuses specifically on communicating in languages other than English, gaining knowledge and understanding of other cultures, and developing insight into the nature of language and culture.

### MANDARIN CHINESE PROGRAM

- **With the Zhēn Bǎng! program, students interact with Mandarin Chinese language and culture in awesome, everyday ways.**
- **Get students talking about family, friends, school, home, meals, shopping and more—conversing in pairs and groups. Zhen Bǎng! integrates language and culture seamlessly and provides technology resources that are easy to use for students and teachers. What an awesome way to learn the Mandarin Chinese language.**

### 499 MANDARIN CHINESE 1

**Grade:** 9, 10, 11

**Credits:** 1

**Level:** Honors, CP

Beginning students learn Chinese pronunciation through the Pinyin phonetic transcription system which is the official Romanization of Mainland China. Mandarin Chinese I strives to emphasize pronunciation. Students will spend ample time learning this foundation phase of Chinese. This series uses the Princeton Method of Pinyin originally developed at Princeton University. Beginning students will study the history/geography of China; the structure of Chinese syllables, the four basic tones, the evolution of Chinese characters and the most common radicals in the foundation work of the study of Mandarin.

Students will learn stroke order for writing characters and will begin to develop and practice listening skills. Students will begin learning pictographs and ideographs and their combinations. After the foundation work students will continue developing their vocabulary, language patterns, cultural understanding, and communication skills involving home, school and community concepts.

In this beginning level of Mandarin Chinese, students will be able to carry on simple everyday conversation and be able to recognize and write Chinese characters. Pinyin (Chinese official phonic system) will be introduced. Each learning unit will consist of Vocabulary, Language Patterns, Dialogue, Culture Window, Language Practice, Communication and Chinese Characters. Chinese culture (songs, movies, poems, chants, ink brush painting, etc.), customs (holidays, food, tradition, etc.) and history (the Great Wall of China, the Forbidden City, Terracotta Warriors and Horses, etc.) are important parts of the language learning and will be integrated in the teaching. Students will also relate what they learned in Chinese class to community (local cultural events)

### 498 MANDARIN CHINESE 2

**Grade:** 10, 11, 12

**Credits:** 1

**Level:** Honors

Students continue their study of Mandarin Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages)

### 498 MANDARIN CHINESE 3

**Grade:** 11, 12

**Credits:** 1

**Level:** Honors

Mandarin 3 is a continuation of the Mandarin 2 course for students from Grades 10-12. Students, who have successfully completed Mandarin 2, or the equivalent, may be admitted. Emphasis is on the development of four major language skills: listening, speaking, reading, and writing. In addition to these skills, students will explore the many facets of Chinese culture and heritage.

Upon successful completion of this course, the student will be able to:

- Strengthen the ability of listening and speaking through Chinese phonetic system (pinyin)
- Develop the ability of reading and writing Chinese characters
- Handle successfully the most uncomplicated communicative tasks in real-life situations;
- Initiate, sustain, and close a general conversation with a number of strategies appropriate to a range of circumstances and topics;
- Expand reading fluency and gradually develop formal writing abilities by studying vocabularies and grammatical patterns
- Explore various aspects of Chinese culture, lifestyles, and social-cultural conventions

## 496 MANDARIN CHINESE 4

Grades: 11, 12

Credits: 1

Level: Honors

Mandarin Chinese IV focuses on basic Chinese knowledge and skills that are applicable to commercial, economic, and business activities. Students will develop communicative ability appropriate to Chinese environment so that they are able to understand the essentials of Chinese economic circumstances and rules for business performance; including trade, investment, cooperation and management of enterprises.

They will also attain competence for cross-cultural communication in the context of economic and cooperative interchange—a wide range of knowledge of business customs and rules in addition to the background information of Chinese culture. **Students will acquire the following skills:**

- Ability to use appropriate expressions on polite social occasion of reception, greeting, introduction, apology and congratulation
- Ability to use appropriate expressions for shopping, traveling, bus riding, telephoning and appointment making
- Ability to use appropriate expressions for commercial activities such as giving a brief account of a company or product getting or giving a quotation, comment or statement
- Ability to use appropriate expressions in consulting, negotiating, bargaining, writing or revising a plan, discussing a way to cooperate, making a comment on a subject in addition to analyzing and sorting out problems
- By completing this course students will have learned Chinese phonetics, advanced Chinese grammar, over 100 commonly used sentence patterns, about 1200 words, and 500 Chinese characters.

## FRENCH PROGRAM

The T'es branché? series

- Aligns with the ACTFL World Readiness Standards as well as the Common Core State Standards—a complete correlation is included in the Annotated Teacher's Edition.
- Written by highly acclaimed educators—Toni Theisen, an ACTFL Teacher of the Year, and Jacques Pécheur, Chief Editor of the French review *Le français dans le monde*.
- Provides for differentiated instruction throughout the textbook and ancillaries, including both basic and more advanced activities. Assessments are designed for at-standard, slower-paced, and advanced learners.
- Responds to teachers' expressed interests and priorities based on feedback from over 1,000 experienced French educators across the country.

## 452 FRENCH 1

Grades: 9, 10, 11

Credits: 1

Level: H, CP

French 1 is an introduction to the basic skills of language study which include listening, speaking, reading and writing. Each section leads the student from a closed-ended, structured practice toward open-ended communication allowing a student to learn the grammar rules using thematic vocabulary from each chapter. The program includes on-location photography, video and animated grammar activities, on-line exercises and resources for every chapter. These components effectively reach a generation raised on computers.

### 461/462 FRENCH 2

Grades: 10, 11, 12

Credits: 1

Level: Honors, CP

**Prerequisites:** French 1 and Teacher Recommendation

French 2 continues the work begun in French 1 by means of the Tape Program with greater emphasis on listening comprehension and speaking skills. Writing skills are developed gradually and lead, by carefully graded questions, to composing short compositions. Students in Honors Track will move at a more rapid pace with additional oral and written work.

### 471/472 FRENCH 3

Grades: 11, 12

Credits: 1

Level: Honors, CP

**Prerequisites:** French 2 and Teacher Recommendation

French 3 aims to strengthen the listening, speaking, reading, and writing skills of the students who have mastered the basic concepts of French. The course provides for vocabulary expansion and development, interesting and relevant reading, a comprehensive review of grammatical concepts and useful conversation. Literary selections represent a wide range of areas within the French-speaking world, from a geographical, as well as, from a social point of view. Students in Honors Track will move at a move rapid pace with additional oral and written work.

### 481/482 FRENCH 4

Grades: 11, 12

Credits: 1

Level: Honors, CP

**Prerequisites:** French 3 and teacher recommendation

French 4 is an advanced study which continues the skills of listening, speaking, reading and writing. Communication and proficiency is the goal of every presentation. The student synthesizes what has been learned in the previous three years. French 4 includes a variety of informative, cultural and literary readings in the target language from the Francophone world. The topics range from current events, sports, politics to art and history. Guided steps are used to improve the writing process. In addition, each chapter provides on-line resources for further study.

### ITALIAN PROGRAM

The Italian program at Bishop Shanahan uses *¡Amici D'Italia!*, a multi-level Italian program for the 21st century classroom. Our students connect to the Italian-speaking world, and rapidly develop language proficiency as well as cultural understanding. Our cutting-edge digital resources allow students to immerse themselves into both the Italian language and cultures in a whole new, personal way.

### 402 ITALIAN 1

Grade: 9, 10, 11

Credits: 1

Level: Honors, CP

Italian 1 is an introduction to the basic skills, structure and sound of world language study. The aim is to learn to communicate effectively and accurately in Italian using the present tense verb conjugations. Practice is given in listening, speaking, reading and writing. In addition, Italian 1 introduces the student to contemporary Italian life and culture via online and text content.

#### 407 ITALIAN 2

**Grade:** 10, 11  
**Credits:** 1  
**Level:** Honors  
**Prerequisite:** Italian 1

Italian 2 continues the work begun in Italian 1 through a more comprehensive study of the basic skills of listening, speaking, reading and writing. Italian 2 introduces more complex grammatical structures including the use of the past and conditional tense, while continuing to develop, broaden and deepen the student's understanding of Italian life and culture via online and text content.

#### 409 HONORS ITALIAN 3

**Grade:** 11, 12  
**Credits:** 1  
**Level:** Honors  
**Prerequisite:** Italian 2 and teacher recommendation

Italian 3 aims to strengthen the listening, speaking, reading, and writing skills of students who have mastered the complex grammar and translation skills covered in Italian 2. This course provides additional material pertaining to Italian culture through the study of Italy's geography and food. Students will also begin to work on writing proficiency through the introduction of directed paragraph construction as well as perfecting advanced conversational skills through presentations.

#### 410 HONORS ITALIAN 4

**Grade:** 12  
**Credits:** 1  
**Level:** Honors  
**Prerequisite:** Italian 3 and teacher recommendation

Italian 4 will continue and augment the student's use of high level grammar structures as well as reading and listening comprehension. Continued emphasis will be on oral proficiency as well as the improvement of writing skills through more complex projects and the use of technology. A study of Italy's history and art will be investigated through the use of supplementary texts and audio-visual materials. If time permits, various representative literary classics will be read and analyzed.

#### 413 AP ITALIAN LANGUAGE & CULTURE

**Grade:** 12  
**Credits:** 1  
**Level:** AP  
**Prerequisite:** Review of previous Italian grades in all Italian courses taken as well as Departmental Recommendation.

Students who have completed Italian 3 have the opportunity to apply for the AP Italian Language and Culture Course. It will be equivalent to an intermediate level college course in Italian. Emphasis will be based on communication (understanding and being understood by others) by applying interpretive, interpersonal, and presentational skills in real-life situations as concepts are explored relating to: family and community; personal and public identity; beauty and aesthetics; science and technology; contemporary life; and global challenges. This will include vocabulary usage, language control, communication strategies, and cultural awareness. The Advanced Placement Examination in Italian Language and Culture will be administered to all students in the course in the spring. All students rostered for this class are required to take the AP Exam.

## SPANISH PROGRAM

The Spanish program at Bishop Shanahan uses *¡Qué chévere!*, a 4-level Spanish program for the 21st century classroom. Our students connect to the Spanish-speaking world, and rapidly develop language proficiency as well as cultural understanding. Our cutting-edge digital resources allow students to immerse themselves into both the Spanish language and cultures in a whole new, personal way.

### 411 HONORS SPANISH 1

**Grade:** 9, 10, 11

**Credits:** 1

**Level:** Honors

Spanish 1 Honors is for students with exceptional verbal, listening and reading skills. Material for this course is essentially the same as the course content for the other Spanish I courses. Students with higher ability will be able to progress at an accelerated rate. Using various educational media, this course includes vocabulary building, development of basic structural patterns, listening comprehension exercises, instructional games, role playing and exploration of the culture of the Spanish speaking world.

### 412 SPANISH 1

**Grades:** 9, 10, 11

**Credits:** 1

**Level:** CP

Spanish 1 is an introduction to the basic skills of world language study. Students will develop the skills of understanding, listening, speaking, reading and writing Spanish at a beginner's level. Using various educational media, this course includes vocabulary building, development of basic structural patterns, listening comprehension exercises, instructional games, role playing and exploration of the culture of the Spanish speaking world.

### 421 HONORS SPANISH 2

**Grades:** 9, 10, 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisite:** Spanish 1 and teacher recommendation

Honors Spanish 2 continues the work begun in Spanish 1 through a more comprehensive and accelerated study of the basic skills of understanding, listening, speaking, reading and writing. Students will be expected to increase their proficiency to communicate verbally and in writing. This will be accomplished by the study of more complex grammatical structures. The course consists of dialogues, readings, cultural materials and role playing. The use of Spanish in class is stressed.

### 422 SPANISH 2

**Grades:** 9, 10, 11, 12

**Credits:** 1

**Level:** CP

**Prerequisite:** Spanish 1 and teacher recommendation

Spanish 2 continues the work begun in Spanish 1 through a more comprehensive study of the basic skills of understanding, listening, speaking, reading and writing. Students will be expected to increase their proficiency to communicate verbally and in writing. This will be accomplished by the study of more complex grammatical structures. The course consists of dialogues, readings, cultural materials and role playing. The use of Spanish in class is stressed.

### **431 HONORS SPANISH 3**

**Grades:** 10, 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisite:** Spanish 2 and teacher recommendation

In this course, the student is expected to master the verb system including uses of the subjunctive. The ability to communicate in Spanish is stressed through total class participation in conversation, exercises, games and practice in writing. Various contemporary topics will be examined through the use of readers and civilization texts. Students will be exposed to an introduction to Spanish literature. Students will also be expected to increase their proficiency in writing through directed compositions and other exercises. Students at the Honors level will progress at a more advanced rate. Students will be expected to converse at a more prolific rate as well as increase proficiency in writing more advanced paragraphs on diverse topics including journal entries.

### **432 SPANISH 3**

**Grades:** 10, 11, 12

**Credits:** 1

**Level:** CP

**Prerequisite:** Spanish 2 and teacher recommendation

In this course, the student is expected to master the verb system including uses of the subjunctive. The ability to communicate in Spanish is stressed through total class participation in conversation, exercises, games and practice in writing. Various contemporary topics will be examined through the use of readers and civilization texts. Students will be exposed to an introduction to Spanish literature. Students will also be expected to increase their proficiency in writing through directed compositions and other exercises.

### **441 HONORS SPANISH 4**

**Grades:** 10, 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Spanish 3 and teacher recommendation

This course will include a complete review of all grammar, especially the verb tenses of the indicative, subjunctive and imperative moods. Continued emphasis will be placed on oral communication and the improvement of writing skills through more complex compositions and essays as well as journal writing. A study of Spanish civilization including geography, history and art will be investigated through the use of supplementary texts, audio-visual materials, technology and individual research. If time permits, various representative literary classics will be read and analyzed.

### **442 SPANISH 4**

**Grades:** 10, 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Spanish 3 and teacher recommendation

Spanish 4 continues the students' development of communicative skills including listening, speaking, reading and writing in Spanish. This course will review all the basic grammar and vocabulary learned in Levels 1, 2 and 3. Emphasis is placed on the authentic and topical reading materials of the text to develop and augment vocabulary, enhance reading comprehension, further cultural understanding and appreciation while providing a tangible and reasonable foundation on which to develop advanced writing skills.

#### 445 ADVANCED PLACEMENT SPANISH

**Grade:** 11, 12

**Credits:** 1

**Level:** AP

**Prerequisites:** Review of previous Spanish grades in all courses taken and departmental recommendation

This course addresses the goals of the Advanced Placement Spanish Language Examination, which covers listening, reading, grammar, speaking and writing in the target language. The course reviews all the basic grammar and vocabulary learned in Levels 1, 2 and 3. AP Spanish does not focus on grammar, but rather on learning the finer, distinguishing points of the basic structures. Students will be exposed to many venues of listening including live radio broadcasts, television news programs, etc. from the many varied Spanish-speaking areas of the world. Students will also be expected to read a variety of expository and narrative selections obtained from journalistic sources such as magazine or newspaper editions. In addition, students will also read authentic literary articles and learn to provide personal interpretations. The Advanced Placement Examination in Spanish Language will be administered to all students in this course in the spring. All students rostered for this class are required to take the AP exam. AP Classes may not be dropped after June 15.

### HEALTH AND PHYSICAL EDUCATION DEPARTMENT

The Bishop Shanahan High School Health and Physical Education Department believes that physical self-concept, self-control, cooperation, conditioning, and basic competence in individual and team activities promote total wellness. Since physical fitness/wellness is a complex process of development requiring knowledge, skills, and a positive state of health, maintaining it is a life-long effort to practice behaviors and to make decisions that exhibit a healthy lifestyle.

#### 922 HEALTH/PHYSICAL EDUCATION

**Grades:** 10

**Credits:** 1

**Note:** Required Course

The Health segment of the course is designed to help students examine their lifestyles, set goals, and make plans for a future of optimum health. A general knowledge of conception and birth, nutrition, drugs and alcohol, tobacco, first aid, as well as AIDS-related topics will be presented in an attempt to advance each person's social growth and character development.

This Physical Education segment of the course stresses physical fitness, skill performance, sportsmanship, and individual and team play. Instruction and rules for a variety of sports and activities will be given and an opportunity will be provided for each student to participate in such activities as: volleyball, basketball, soccer, hockey, and aerobic dance.

#### 927 NUTRITION AND SPORTS PERFORMANCE

**Grades:** 11, 12

**Credits:** 1

**Level:** CP

This course is designed to use scientific principles to develop and participate in a regular, vigorous physical activity program that involves all the health-related components; cardiovascular endurance, muscle strength, flexibility, agility, and nutrition. Students will be expected to fully participate in both the classroom curriculum as well as the dietary and performance aspects.

## MATHEMATICS DEPARTMENT

The Mathematics Department follows the Common Core State standards and strives to prepare each student for further study in Mathematics and to develop an educated person who can:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

### 511 HONORS ALGEBRA 1

**Grade:** 9

**Credits:** 1

**Level:** Honors

This course is designed for the student who has superior mathematical ability. The student will be introduced to the most important aspects of algebra and will be given a firm foundation for further study of mathematics.

### 512 ALGEBRA 1

**Grade:** 9

**Credits:** 1

**Level:** CP

This course provides a useful mathematical foundation for the skills that are necessary to function in a technical world. The material is presented with less depth and rigor than in the honors course, with emphasis on learning skills rather than theory.

**Geometry:** Based on the Common Core Standards, students enrolled in Geometry will experiment with transformations in the plane, will prove geometric theorems and will make geometric constructions. Students will understand similarity, right triangles and trigonometric ratios. Students will understand and apply theorems about circles, will express geometric properties with equations, and will use geometric measurement and dimension to solve problems. Students will reason abstractly and quantitatively and will construct viable arguments and critique the reasoning of others.

### 521 HONORS GEOMETRY

**Grades:** 9, 10

**Credits:** 1

**Level:** Honors

This course is intended for those students who have completed Algebra 1 and have demonstrated mastery of the subject. It emphasizes the structure of plane geometry with an overview of some selected topics in solid geometry. Deductive reasoning is also covered as well as a re-emphasis on algebra topics. Freshmen Placement in this course is based on three criteria: Algebra 1 grade on the diocesan Algebra exam, and recommendation from the eighth grade Algebra 1 teacher.

### 522 GEOMETRY

**Grade:** 10

**Credits:** 1

**Level:** CP

This course emphasizes the basic structure of plane geometry with an introduction to solid geometry. The student is introduced to the concept of deductive reasoning and formal proof. Emphasis is placed on the use of algebra in solving geometry problems.

**Algebra II:** Based on the Common Core Standards, students enrolled in Algebra II will interpret and build functions, will perform arithmetic with polynomials and rational functions, will analyze functions using various representations and will construct and compare linear and exponential models and solve problems. Students will reason abstractly and quantitatively, will construct viable arguments and critique reasoning of others and will use appropriate tools of mathematics strategically.

### 531 HONORS ALGEBRA 2

**Grade:** 10, 11

**Credits:** 1

**Level:** Honors

**Prerequisites:** 80 in Honors Geometry (Course #521)/Teacher recommendation

In addition to a review of basic algebra, the course covers functions, the complex number system, matrices, logarithms and exponents, and an introduction to trigonometry.

### 532 ALGEBRA 2

**Grade:** 11

**Credits:** 1

**Level:** CP

This course reinforces and expands on the theory and skills learned in Algebra 1. In addition, logarithmic and exponential functions, graphing of equations and inequalities, and the complex number system are emphasized. Word problems and applications dealing with these topics reinforce algebraic topics.

### 541 HONORS TRIGONOMETRY / PRE-CALCULUS

**Grades:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Teacher Recommendation

This course is intended for those students who have gained a firm grasp on the fundamentals of Algebra 2. The topics covered include: a thorough study of analytic geometry, functions, equation solving, the complex number system, sequences and series, advanced topics in trigonometry and applications of these topics.

### 542 TRIGONOMETRY / PRE-CALCULUS

**Grade:** 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Successful completion of Algebra 2

The topics covered include: a thorough study of analytic geometry, functions, equation solving, the complex number system, sequences and series, advanced topics in trigonometry and applications of these topics.

### 543 TRIGONOMETRY AND STATISTICS

**Grade:** 12

**Credits:** 1

**Level:** CP

**Prerequisite:** Successful completion of Algebra 2

This course is intended for those students whose college plans do not include mathematics or science related study, yet would like to complete four years of college preparatory mathematics. It will provide students with a basic understanding of the trigonometric functions and their applications. It will also include a study of the basics of Statistics and Probability including definitions and applications of various common distributions such as the normal bell curve distribution. This part of the course is not heavy with the mathematics of Statistics, but will emphasize a basic understanding of the theory and applications of Probability and Statistics.

### 545 ADVANCED PLACEMENT CALCULUS

**Grade:** 12

**Credits:** 1

**Prerequisite:** Teacher and Department Chairman recommendations

Topics included in this course are: derivatives of polynomials, trigonometry, exponential and logarithmic functions. Antiderivatives of the same functions will be considered as well as practical applications of both.

**All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 546 HONORS CALCULUS

**Grade:** 12

**Credits:** 1

**Level:** Honors

**Prerequisite:** Teacher recommendation

Topics included in this course are the same as those in course #545. However, the course is less rigorous and the Advanced Placement test in May is not a requirement.

### 555 ADVANCED PLACEMENT STATISTICS

**Grade:** 12

**Credits:** 1

**Prerequisite:** Teacher and Department Chairman recommendations

This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Observing patterns and departures from patterns,
2. Planning a Study: Deciding what and how to measure,
3. Anticipating Patterns: Producing models using probability and simulation.
4. Statistical Inference: Estimating Population parameters and testing hypotheses

All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.

### 551 HONORS STATISTICS

**Grade:** 12

**Credit:** 1

**Prerequisite:** Department approval and successful completion of Algebra 2

A comprehensive study of statistics and probability including interpreting data using the bell shaped curve, z-scores, planning a study, probability, and understanding and applying confidence levels to data. Included in this course are hands-on activities and experiments, as well as mathematical writing.

### 552 STATISTICS

**Grade:** 12

**Credits:** 1

**Level:** CP

This course provides a foundation in the study of Statistics. Topics include descriptive statistics in one and two variables, normal and binomial distributions, counting techniques, rules of probability, and expected values. Topics related to inference and hypothesis testing will also be covered. Aids in computation, interpretation and presentation of statistical results will include the use of graphing calculators, Office applications, and statistical software (Minitab). This course is for seniors who have completed Pre-Calculus/Trigonometry, or as an elective for seniors who are enrolled in Pre-Calculus/Trigonometry.

### 561 INTRODUCTION TO STEM/ROBOTICS

**Grade:** 11, 12

**Credits:** 1

**Level:** Honors

This course helps juniors and seniors understand the engineering profession and its various disciplines through both direct instruction and interdisciplinary projects. The course will give an overview of the engineering profession and help students understand the role of an engineer in society. Students will participate in a series of hands-on projects that will stress both problem solving and teamwork. Semester 1 introduces students to the various types of engineering and introduces students to basic engineering concepts such as the engineering design process, project management, and the application of math and science in engineering fields. Students will be introduced to the building and printing of 2D and 3D models through the use of CAD and MakerBot 3D printing software. Semester 2 introduces students to the hardware and software basics of building electronics. Topics covered include circuits, electrical components, Arduino microcontrollers and basic programming concepts.

## SCIENCE DEPARTMENT

Science is a tool that delves into research and investigation done by others as well as a means of original research and investigation. Science is a questioning, creative process in itself, not merely a collection of facts or processes. It questions all things, rejecting the notion that ideas are unchangeable, and opens itself to continual scrutiny and modification. Science builds meaning through specific ways of observing, thinking, experimenting and validating. It is the intention of the Science Department Program to offer to as many students as possible the opportunity to study the world at all levels of complexity through a variety of introductory and secondary level courses.

The AP Sciences are intended for students who are considering majoring in science in college. Students need high PSAT scores, very high grades in previous sciences, high exam grades in the sciences, excellent math grades (especially algebra), and excellent work ethic and the time available to spend four hours a week on AP Science coursework. They will also need their current teacher's recommendation.

### 611 HONORS FRESHMAN PHYSICS

**Grade:** 9  
**Credits:** 1  
**Level:** Honors

This course places emphasis on the relationship between mathematics and physical principles as a means of predicting behavior in the physical world. The goal of Conceptual Physics is to enable students to practice critical thinking and logic to lay the foundation for future science courses. Topics include mechanics, heat, sound, light, magnetism, atomic and nuclear physics and measurement. Lab activities are integral to this course. This is not a pre-college physics course.

### 612 FRESHMAN PHYSICS

**Grade:** 9  
**Credits:** 1  
**Level:** CP

The goal of this course is to help the student understand the concepts and ideas of physics. Mathematical computations are used as a means of predicting behavior in the physical world. This course will enable students to practice critical thinking and logic and will lay the foundation for future science courses. Topics include mechanics, heat, sound, light, magnetism, atomic and nuclear physics and measurement. Lab activities are integral to this course. Students are given extra direction and assistance with math concepts.

### 613 FRESHMAN PHYSICS

**Grade:** 9  
**Credits:** 1  
**Level:** CP

This course is designed to provide background in the basic tenets of the principles of Physics. Physics topics include a study of the laws of motion, force, work and waves. The introduction and understanding of the Scientific Method and basic laboratory skills are included in this course. Students are given extra direction and assistance with math concepts. More group work is done in this course.

### 617 HONORS BIOLOGY (Grade 9)

**Grades:** 9  
**Credits:** 1  
**Level:** Honors

**Prerequisites:** Algebra 1 and Geometry (concurrent with Biology), and Department Approval

In this accelerated biology course students will focus deeply on four core areas: ecological systems, evolution, cellular systems, and genetics. Students will engage deeply with science practices to construct and revise their biological knowledge as well as cross-disciplinary reading, writing, and data-analysis skills. Students will be challenged to make

meaningful connections among the structures, processes, and interactions that exist across biological systems from cells to ecological communities. This course motivates learners to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, laboratory investigations, and problem solving.

### **621 HONORS BIOLOGY 1**

**Grades:** 10

**Credits:** 1

**Level:** Honors

**Prerequisites:** Honors Introduction to Physics Concepts, Algebra 1 and Geometry (concurrent with Biology), and Department Approval

In this accelerated biology course students will focus deeply on four core areas: ecological systems, evolution, cellular systems, and genetics. Students will engage deeply with science practices to construct and revise their biological knowledge as well as cross-disciplinary reading, writing, and data-analysis skills. Students will be challenged to make meaningful connections among the structures, processes, and interactions that exist across biological systems from cells to ecological communities. This course motivates learners to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, laboratory investigations, and problem solving.

### **622 BIOLOGY 1**

**Grade:** 10

**Credits:** 1

**Level:** CP

**Prerequisites:** Conceptual Physics, Algebra 1

This introductory biology course will focus on four core areas: ecological systems, evolution, cellular systems, and genetics. Students will make meaningful connections among the structures, processes, and interactions that exist across biological systems from cells to ecological communities. By examining these processes, students build an understanding of the complex relationships between living and nonliving systems. This course teaches all learners to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, hands on laboratory investigations, and problem solving.

### **623 BIOLOGY 1**

**Grade:** 10

**Credits:** 1

**Level:** CP

**Prerequisites:** Conceptual Physics, Algebra 1 and Department Approval

This introductory biology course will focus on four core areas: ecological systems, evolution, cellular systems, and genetics. Students will make meaningful connections among the structures, processes, and interactions that exist across biological systems from cells to ecological communities. By examining these processes, students build an understanding of the complex relationships between living and nonliving systems. This course teaches all learners to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, hands on laboratory investigations, and problem solving.

### **627 HONORS CHEMISTRY 1**

**Grade:** 10, 11

**Credits:** 1

**Level:** Honors

**Prerequisites:** Honors Biology (617), Honors Geometry (concurrent), Honors Algebra II (510), Department Approval  
**This lab-oriented course in Chemistry is designed for those students in the Accelerated Science Program.**

Experimentation is used as a vehicle for the presentation of unifying principles in the study of matter and its interaction with energy. The purpose of this course is to encourage the student to think independently and to form the habit of

questioning to verify assumptions by reference to evidence obtained through experimentation. Topics include matter, measurement, the atom, moles, chemical equations, stoichiometry, the periodic table, bonding, equilibrium, solutions, acids and bases. This course places heavy emphasis on the relationship between mathematical and chemical principles.

### 647 HUMAN ANATOMY AND PHYSIOLOGY

**Grade:** 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Biology 1, Chemistry 1

CP Human Anatomy and Physiology is an intense year-long study of the human body. Three unifying themes are utilized: Interrelationships of body organ systems, Homeostasis, and Complementarity of structure and function. This course will do an in-depth investigation of the human body systems and in health and disease. This is a foundational course for students interested in pursuing health-related fields. This course will include, but is not limited to, virtual dissections, case studies with real world applications, the use of manipulatives, and modeling. A strong foundation in root words, prefixes, and suffixes is strongly emphasized in the learning and application of anatomical and physiological terminology.

### 646 HONORS HUMAN ANATOMY AND PHYSIOLOGY

**Grade:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Honors Biology 1, Honors Chemistry 1 and Department Approval

Honors Human Anatomy and Physiology is an intense year-long study of the human body. Three unifying themes are utilized: Interrelationships of body organ systems, Homeostasis, and Complementarity of structure and function. This course will do an in-depth investigation of the human body systems and in health and disease. This is a foundational course for students interested in pursuing health-related fields. This course will include, but is not limited to, virtual dissections, case studies with real world applications, the use of manipulatives, and modeling. A strong foundation in root words, prefixes, and suffixes is strongly emphasized in the learning and application of anatomical and physiological terminology. This is a more in-depth accelerated course which moves at a rapid pace.

### 665 ADVANCED PLACEMENT BIOLOGY

**Grade:** 11, 12

**Credits:** 1

**Prerequisites:** Honors Biology, Honors Chemistry, Honors Algebra 2 and Department Approval

This course is based on the AP Biology Curriculum Framework developed by the College Board. The curriculum focuses on Four Big Ideas which are integrated and interconnected in a conceptual framework that provides the student with an experience equivalent to that of a first-year college biology student. The curriculum allows the student to develop a strong knowledge base and understanding of biological concepts as well as the ability to integrate and enhance comprehension of science practice through inquiry-based laboratory investigations and various other activities. Upon completion of the course, students will develop an increased appreciation for the relationship between the physical and biological sciences. Students will be more fully aware that science is important for knowledge in itself and see how new technologies can have profound effects in their everyday lives. The AP Sciences are meant for students who intend to be science majors in college. It is strongly recommended that they take physics and four years of math. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 631 HONORS CHEMISTRY 1

**Grade:** 11

**Credits:** 1

**Level:** Honors

**Prerequisites: Honors Biology, Honors Algebra 1, Honors Algebra 2 (may be concurrent with Chemistry),  
Department Approval**

Experimentation is used as a vehicle for the presentation of unifying principles in the study of matter and its interaction with energy. The purpose of this course is to encourage the student to think independently and to form the habit of questioning to verify assumptions by reference to evidence obtained through experimentation. Topics include matter, measurement, the atom, moles, chemical equations, stoichiometry, the periodic table, bonding, equilibrium, solutions, acids and bases. The course places heavy emphasis on the relationship between mathematical and chemical principles.

### **632 CHEMISTRY 1**

**Grades:** 10, 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** CP Biology, Algebra 1, Geometry

Experimentation is used as a vehicle for the presentation of unifying principles in the study of matter and its interaction with energy. The purpose of this course is to encourage the student to think and to form the habit of questioning to verify assumptions by reference to evidence obtained through experimentation. Topics include matter, measurement, the atom, moles, chemical equations, stoichiometry, the periodic table, bonding, solutions, acids and bases. Students are given additional direction and assistance with math concepts.

### **633 CHEMISTRY**

**Grades:** 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Biology 1, Math (2 yrs.) and Department Approval

Chemistry is a standards-based general chemistry curriculum specifically designed to encourage students with diverse learning styles to understand chemistry. It organizes lessons within everyday, real-world contexts. Students will perform lab experiments to form new knowledge. They will sort and organize information, and evaluate the merits and shortcomings of physical models for explaining phenomena. The course is intended for students with a limited mathematics background who have a sincere interest in learning chemistry.

### **635 ADVANCED PLACEMENT CHEMISTRY**

**Grade:** 11, 12

**Credits:** 1

**Prerequisites:** Honors Biology, Honors Chemistry, Honors Algebra 2, Department Approval

Advanced Placement (AP) Chemistry is designed to be the equivalent of a first-year college-level general chemistry course. As such, the course is suitable only for high school students who are particularly capable in chemistry. AP Chemistry students need to exhibit unusually high levels of commitment, motivation and academic maturity. This is a lab-oriented course and requires that all students taking the course sit for the AP Chemistry Examination in May. Course content follows the syllabus as dictated by the College Board. A summer assignment is required. The AP Sciences are meant for students who intend to be science majors in college. It is strongly recommended that they take physics and four years of math. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### **641 HONORS PHYSICS**

**Grade:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Honors Chemistry 1, Three Years of Honors Mathematics (one concurrent with Physics), Department Approval

Physics is concerned with the relationship between matter and energy. The ultimate goal of Physics is to explain the physical universe in terms of basic interactions and simple particles. In this rigorous, mathematics-based course, the students will study topics such as mechanics, waves, electricity, and nuclear physics in depth. Emphasis will be placed on problem-solving, quantitative lab work and real-world applications of physical principles. This is a pre-college physics course.

### 642 PHYSICS

**Grade:** 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Conceptual Physics, Biology 1, three years of Mathematics (one concurrent with Physics), including Trig/Pre-Calc

Physics is the study of the patterns of the physical world. Emphasis is placed on strengthening the student's ability to pursue an extended logical analysis of physical events. Motion problems and vector analysis involve an understanding of orbiting satellites, trajectories of celestial bodies, and motion of automobiles. Sound, light, and basic electricity are investigated. Heavy emphasis is placed on mathematical relationships and skills. This is a pre-college physics course.

### 685 ADVANCED PLACEMENT PHYSICS C

**Grade:** 11, 12

**Credits:** 1

**Prerequisites:** Honors Chemistry, Honors Physics, Honors Pre-calculus, (concurrent with Calculus), Department Approval

Advanced Placement (AP) Physics is designed to be the equivalent of a first-year college-level physics course. As such, the course is suitable for high school students who are particularly capable in math and physics. This is a second year Physics course. AP students need to exhibit unusually high levels of commitment, motivation and academic maturity. This is a lab-oriented course and requires that all students taking the course sit for the AP Physics examination in May. Course content follows the syllabus as dictated by the College Board. A summer assignment is required. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 651 HONORS ENVIRONMENTAL SCIENCE

**Grades:** 11, 12

**Credits:** 1

**Level:** Honors

**Prerequisites:** Biology 1, Chemistry, and Department Approval

Environmental science is a multidisciplinary course that incorporates the study of other sciences. It also conceptualizes the interrelatedness of other factors such as economics, philosophy, ethics, policies, engineering, economics among other disciplines. This course is designed to have students explore environmental principles, issues, and sustainable solutions for our planet. Through the use of case studies utilizing real world applications, documentaries, research articles, graphing and data analysis, and projects students will learn to investigate local and global environmental issues that are facing the world today. This is a more in-depth course that requires additional reading and research. Topics include, but are not limited to, interactions between environments and organisms, ecosystems and communities, population characteristics and issues, energy, biodiversity, agriculture, water management, air quality issues, climate change, waste management and disposal, environmental regulations, the environment and human health, and environmental policy.

## **652 ENVIRONMENTAL SCIENCE**

**Grades:** 11, 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Biology 1

Environmental science is a multidisciplinary course that incorporates the study of other sciences. It also conceptualizes the interrelatedness of other factors such as economics, philosophy, ethics, policies, engineering, economics among other disciplines. This course is designed to have students explore environmental principles, issues, and sustainable solutions for our planet. Through the use of case studies utilizing real world applications, documentaries, research articles, graphing and data analysis, and projects students will learn to investigate local and global environmental issues that are facing the world today. Topics include, but are not limited to: population ecology and evolution, human population growth, communities and ecosystems, biodiversity conservation, climate change, air and water quality, agriculture, energy, and environmental health.

## **662 OCEANOGRAPHY/ASTRONOMY**

**Grade:** 12

**Credits:** 1

**Level:** CP

**Prerequisites:** Biology, Chemistry

This course is intended for students who are interested in the sciences. They will study relationships and analyze information. Oceanography examines the central role that the oceans play in the vast global system. Geology, chemistry, physics and biology are all integrated in the study of the oceans. The Oceanography portion includes the geology of the ocean floor, sea water and air interactions, ocean circulation, water dynamics, tides and beach processes. Lab activities are included.

Astronomy represents known facts, evolving ideas and frontier discoveries. Some of the topics included are our planetary system, stars, star formation, galaxies, interstellar medium, telescopes and spectroscopy. Technology is integral to the course.

## **689 STEM Capstone Project Seminar**

*Required for all Grade 12 STEM Certificate Program Participants*

This year-long seminar course is designed to allow students in the STEM Certificate Program to apply the skills and knowledge they have learned through participation in the STEM Pathways Program. Students will identify a real-world problem, develop related research question(s), design and conduct research, analyze results, report findings, and if applicable, design a physical solution to the problem. Working with a mentor currently in a STEM related field, students will rely on critical thinking, collaboration, problem-solving, and communication skills to design and implement their project. They will present their final project to a panel of Shanahan faculty and STEM professionals.

## SOCIAL STUDIES DEPARTMENT

The primary goal of the social studies department is to provide all students with a knowledge and understanding of those events that have shaped the world in which they live and to prepare them to function as informed citizens. Currently, three social studies credits are required for graduation with a fourth year offered as an elective for seniors.

Based upon ability level and performance, all courses are designated as either Advanced Placement, Honors, College Prep 1 or College Prep 2. While the content for each course may remain essentially the same, the tempo and method of instruction, along with skills development and testing techniques will vary. All courses, regardless of level, prepare the students for college acceptance.

Advanced Placement courses are the most rigorous and demanding. Only those students who have received the recommendation of their social studies teacher and the department chair will be admitted. Without exception, all will be required to take the Advanced Placement Examination in May, for which a separate fee must be paid. Additional fees may also be necessary for any supplementary or review materials required for the course.

### 311/312 THEMES IN WORLD HISTORY: HUMAN PROGRESS THROUGH THE AGES

**Grade:** 9

**Credits:** 1

**Level:** Honors, CP

This 9th grade introduction to world history offers a global examination of key themes in human history, beginning with the birth of civilization and running up until modern times. Emphasis will be placed upon the depth rather than the breadth of material to be covered and will include such topics as cultural diffusion, the growth of civilization, the cultural roots of the world's various religions, the development of social, political and economic systems and the role of conflict in world history. The specific content of the course will be chosen so as to best illustrate and support each of the major themes.

### 321/322 AMERICAN GOVERNMENT & POLITICS

**Grade:** 10

**Credits:** 1

**Level:** Honors, CP

This course will examine the American system of government within the context of the major historical events that shaped it. Special attention will be paid to the origins of our system of government, the constitutional foundation of our federal system, the rights of the individual as embodied in the Bill of Rights and an examination of the three branches of government.

### 325 ADVANCED PLACEMENT U.S.GOVERNMENT & POLITICS

**Grade:** 10

**Credits:** 1

This course provides a rigorous and intensive analysis of the United States government and politics. It will include an examination of the constitution, civil rights, the institutions of government, the role of political parties, interest groups and the media, the political beliefs and behavior of the people, and the formulation of public policy. This course will fulfill the 10th grade social studies requirement. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 331/332/333 THEMES IN UNITED STATES HISTORY

**Grade:** 11

**Credits:** 1

**Level:** Honors, CP

By employing a thematic approach, this course will examine the challenges, changes and enduring issues that have marked the development of the United States, beginning with the crisis preceding the Civil War and running through the 21st century.

### 233 AMERICAN STUDIES

**Grade:** 11

**Credit:** 1

**Level:** Honors and CP

*This two-credit course fulfills the grade 11 ELA and social studies requirements. Students must complete an application and be accepted.*

This course takes an interdisciplinary approach to studying the history and culture of the United States through the lens of social justice. Through the use of critical thinking and reading students will examine text types and purposes, arguments, explanatory/informational texts, and narratives. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various selections in American studies and literature. By employing a topical approach, this course will examine the challenges, changes and enduring issues that have marked the development of the United States and American democracy, beginning with the crisis preceding the Civil War and running through the 21st century.

### 335 ADVANCED PLACEMENT UNITED STATES HISTORY

**Grade:** 11

**Credits:** 1

This course is an intensive survey of the history of the United States from its colonial foundations to the present time. It will examine the social, political, economic and cultural elements that have created the America of today. Students will be required to engage in extensive independent reading, writing and research, involving both primary and secondary sources. This course will fulfill the 11th grade social studies requirement. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 341/342/343 COMPARATIVE GOVERNMENT AND ECONOMICS

**Grade:** 12

**Credits:** 1

**Level:** Honors & CP

This course is an elective open to senior students only. It examines the development and basic characteristics of various political and economic systems by comparing different nations and regions of the world. Special attention will be paid to the influence of geography, history and culture on the development of these systems. Since a course such as this cannot be taught without making reference to current events taking place in the world today, a small fee may be required for additional supplementary materials.

### 345 ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS

**Grade:** 12

**Credits:** 1

This course examines the history of government, the different and often conflicting theories of government and the various ways in which governments have developed throughout the world. Specific governments to be studied include those of Britain, Russia, China, Mexico, Nigeria and Iran. By its very nature, this course will also involve frequent discussions of current problems in world politics. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 385 ADVANCED PLACEMENT MACROECONOMICS (Offered in September of Even-Numbered Years)

**Grade:** 11, 12

**Credits:** 1

**Prerequisite:** Department Approval

This course concentrates on an analytical rather than descriptive approach to the principles and problems of macroeconomics. As such, students should be prepared to understand and make use of various mathematical models and formulas. Topics to be considered include: price and output determination in the market, government spending, national income accounting, the banking system, monetary and fiscal policy, international trade and problems of economic growth. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 375 ADVANCED PLACEMENT MICROECONOMICS (Offered in September of Odd-Numbered Years)

**Grade:** 11, 12

**Credits:** 1

**Prerequisite:** Department Approval

This course will focus on the nature and functions of product and factor markets, and the role of the government in promoting greater efficiency and equity in the economy. Students will gain an understanding of how basic economic principles apply to the functions of producer and consumer decision making. Students will use their mathematical and higher order thinking skills to analyze, solve, and defend their responses to economic problems. **All students rostered for this class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**

### 355 AFRICAN AMERICAN STUDIES (1<sup>st</sup> Semester)

**Grade:** 11, 12

**Credit:** .5

**Level:** Honors and CP

This is a half-year elective course which explores the cultural, political and social history of African Americans from the Middle Passage through contemporary American life. Through this course students will develop a deeper understanding of the intricate ways in which African Americans have influenced and shaped the history and culture of the United States. In this course, students will examine the historical approaches to understanding the experiences and contributions of African Americans in the United States.

### 352 CASE STUDIES IN CIVIL RIGHTS (2<sup>nd</sup> Semester)

**Grade:** 11, 12

**Credit:** .5

**Level:** Honors and CP

This half year guided seminar course invites the students to explore landmark Supreme Court civil rights cases from their historical roots through their contemporary impact. Students will work individually and in groups to research specific cases impacting various minority and historically marginalized groups including Native Americans, women, immigrants, African Americans, people with disabilities, followers of specific religious beliefs, among others. A variety of presentation styles including debate, oral and written presentations, as well as Socratic seminar will be used. This course requires that the student is able to identify areas of specific interest within the topic list, work independently and collaboratively, as well as actively respond in large and small group discussions.

## The Bishop Shanahan STEM Pathways Program

*Expanding Access and Providing Pathways to Success*



The Bishop Shanahan STEM Pathways Program seeks to inspire the next generation of innovators by empowering students to become creative, collaborative, and critical-thinking problem solvers. The program takes an interdisciplinary approach to learning, where rigorous academic concepts are coupled with real-world applications and students use STEM in contexts that make connections between school, community, work, and the wider world.

In more concrete terms, our program seeks to:

- ensure all Bishop Shanahan students graduate with a fluency in basic STEM literacy;
- provide students who express a particular interest and aptitude in STEM a pathway to success in STEM in college, career, and beyond.

### *Year by Year Overview*

<p style="text-align: center;"><b><i>Freshman Year</i></b></p> <ul style="list-style-type: none"> <li>• Information Technologies/Introduction to STEM</li> <li>• Civil Engineering Project/Lab in Physics 9</li> <li>• Electrical Engineering Project/Lab in Physics 9</li> <li>• Bio-engineering Project/Lab in Biology</li> </ul>	<p style="text-align: center;"><b><i>Sophomore Year</i></b></p> <ul style="list-style-type: none"> <li>• STEM Speaker Series in Science courses</li> <li>• Bio-engineering Project/Lab in Biology</li> <li>• STEM Project in Geometry</li> <li>• Option to apply for STEM Certificate Program for junior year</li> </ul>
<p style="text-align: center;"><b><i>Junior Year</i></b></p> <ul style="list-style-type: none"> <li>• STEM Certificate Program Year 1</li> <li>• STEM Certificate Speaker Series</li> <li>• STEM Electives</li> </ul>	<p style="text-align: center;"><b><i>Senior Year</i></b></p> <ul style="list-style-type: none"> <li>• STEM Certificate Program Year 2</li> <li>• STEM Certificate Speaker Series</li> <li>• STEM Certificate Capstone Project</li> <li>• STEM Electives</li> </ul>

### *STEM Certificate Program*

At the conclusion of sophomore year, students who express a particular interest and aptitude in STEM will be invited to apply for the STEM Certificate Program. Students who successfully complete the STEM Certificate Program will graduate Bishop Shanahan with an official certificate denoting their participation in the program, and that they have displayed advanced proficiency in STEM. To apply for the STEM Certificate Program, students must have an overall average of 85, and have successfully completed geometry with at least an 85.

### *Requirements of the STEM Certificate Program*

- 4 years of Math and Science
- 2 credits in STEM Electives
- Attendance at all STEM Certificate Events (Speaker Series, field trips, etc.)
- Active membership on the STEM Team or FIRST Robotics Team
- Senior STEM Capstone Project

### *STEM Capstone Project Seminar*

*Required for all Grade 12 STEM Certificate Program Participants*

This year-long seminar course is designed to allow students in the STEM Certificate Program to apply the skills and knowledge they have learned through participation in the STEM Pathways Program. Students will identify a real-world problem, develop related research question(s), design and conduct research, analyze results, report findings, and if applicable, design a physical solution to the problem. Working with a mentor currently in a STEM related field, students will rely on critical thinking, collaboration, problem-solving, and communication skills to design and implement their project. They will present their final project to a panel of Shanahan faculty and STEM professionals.

### *STEM Electives*

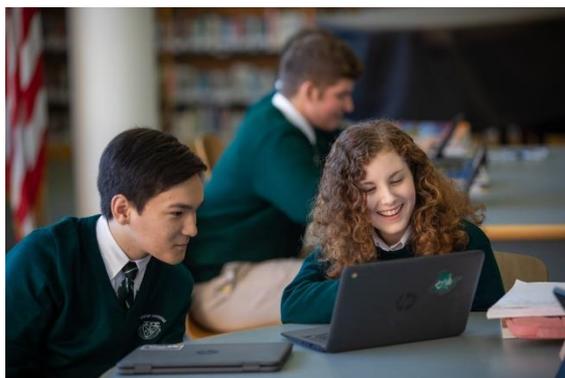
- Principles of STEM (1 credit)
- Computer Programming (1 credit)
- Environmental Science (1 credit)
- Human Anatomy and Physiology (1 credit)
- Information Technologies II (.5 credit)
- Oceanography/Astronomy (1 credit)
- Speak to Lead (Public Speaking) (.5 credit)
- AVLI AP Computer Science (1 credit)
- AVLI AP Environmental Science (1 credit)
- AVLI Bioethics (.5 credit)
- AVLI Computer Game Development (.5 credit)
- AVLI Database Development for Real World Programs (.5 credit)
- AVLI Understanding Artificial Intelligence (.5 credit)
- AVLI Powered By: The Science of Energy (.5 credit)



# The Eagle Business Academy

*Preparing Future Decision Makers to Soar to New Heights*

## *What is the Eagle Business Academy?*



The Eagle Business Academy is a four-year academic pathway designed to empower students to become innovative leaders equipped to pursue careers and future study in business, solve real world problems, and practice entrepreneurship rooted in ethical decision making directed towards social justice. The Business Academy exists within the framework of the traditional BSHS curriculum; students will be exposed to advanced and diverse study within the field of business while covering all other high school prerequisites necessary for acceptance into competitive post-secondary institutions. Emphasis will be placed on the development of key skills including critical thinking, problem solving, research, reading, writing, speaking, presenting, teamwork, analysis, reasoning, negotiating, and

questioning. The rigorous courses will enable students to apply these skills while identifying how their learning connects to other academic disciplines.

The program begins with a brief introduction to the study of business embedded in students' freshmen year coursework. At the end of freshman year, interested students who meet the academic requirements will be invited to apply to the Eagle Business Academy. Approximately thirty rising sophomore students will be accepted into the program each year. Upon acceptance, students will follow a course of study which includes exposure to multiple facets of the business world and culminates in the completion of a capstone project senior year. Graduates of the Business Academy will receive an official certificate denoting their successful completion of the program.

### *Year by Year Overview*

<b><i>Freshmen Year</i></b>	<b><i>Sophomore Year</i></b>
<ul style="list-style-type: none"> <li>• All students introduced to principles of business</li> <li>• Participation in DECA</li> <li>• At end of year, apply to be in Business Academy</li> </ul>	<ul style="list-style-type: none"> <li>• Eagle Business Academy Year 1</li> <li>• Take Intro to Business course in place of Health/PE*</li> <li>• Participation in DECA</li> <li>• Business Academy Speaker Series</li> </ul>
<b><i>Junior Year</i></b>	<b><i>Senior Year</i></b>
<ul style="list-style-type: none"> <li>• Eagle Business Academy Year 2</li> <li>• 1-2 Business electives</li> <li>• Participation in DECA</li> <li>• Business Academy Speaker Series</li> </ul>	<ul style="list-style-type: none"> <li>• Eagle Business Academy Year 3</li> <li>• 2 Business electives</li> <li>• Senior capstone project</li> <li>• Business Academy Speaker Series</li> </ul>

*\*1 credit of Health/PE is a state requirement for graduation; this credit must be made up in junior or senior year.*

### *Application Process*

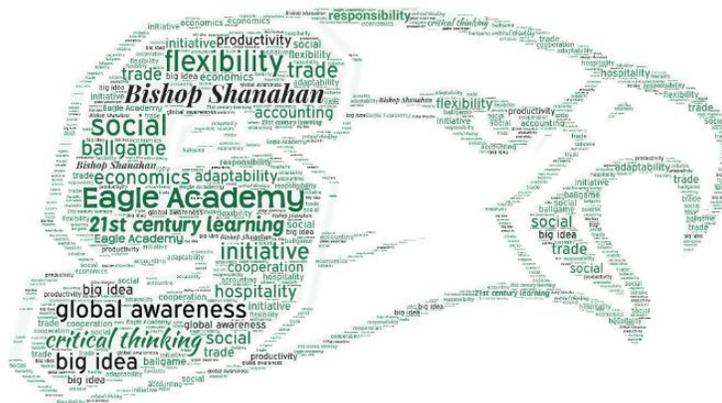
Students will indicate interest in the Eagle Business Academy by completing a form shared by the Office for Academic Affairs. In order to be invited to apply to the Eagle Business Academy, students must have an overall average of at least 85, and at least an 85 in their freshman math and Info Tech I classes. Qualified applicants will be interviewed by members of the Business Academy Committee. The Committee will select up to thirty students for admittance into the Academy.

## *Program Requirements*

- Successfully complete all BCIT courses with at least an 85, and maintain an overall average of 85 through the duration of the program
- Participation in DECA
- Introduction to Business course sophomore year
- 4 credits of business electives (including Intro to Business sophomore year)
- Attendance at all Business Academy Speaker Series events
- Completion of senior capstone project

## *Business Electives*

- Introduction to Business
- Microeconomics
- Macroeconomics
- Marketing
- Social Media & Digital Advertising
- International Business
- Hospitality and Tourism
- Sports Management
- Speak to Lead (Public Speaking)
- Accounting (Dual enrollment with Immaculata University)
- Exploring Ethics and Personal Finance (Neumann University Dual Enrollment Course)
- Principles of Management (Neumann University Dual Enrollment Course)
- Business Ethics and Applications
- Personal Finance (Dual enrollment with Immaculata University)



## SPECIAL PROGRAMS

### DIOCESAN SCHOLARS

Grades: 12  
Credits: 2  
Level: AP  
Limit: 6 Students

The top 30 juniors, based on the first semester cumulative rank, are given an opportunity to apply for admission to the Diocesan Scholars Program. Selection into this program provides the Diocesan Scholar an opportunity to take four college courses at a nearby Catholic college during senior year. Advanced placement quality points will be applied to the grades earned in these courses.

### AP COURSES (ALL DEPARTMENTS)

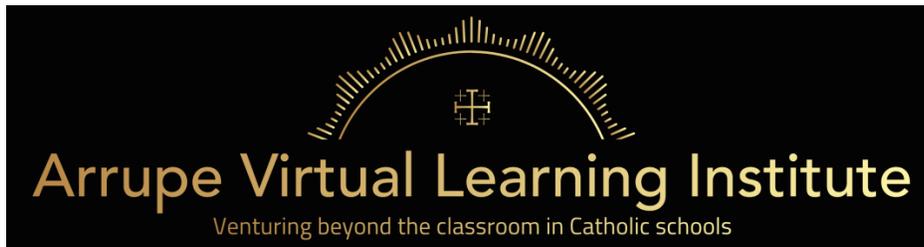
Grades: 10, 11, 12  
Credits: 1

Any student accepted into an Advanced Placement course during the Rostering process has the ability to drop the AP course until **June 15<sup>th</sup>** of the school year in which the placement occurred. **After June 15<sup>th</sup> students are NOT permitted to drop any AP course in which they are enrolled.** All students taking Advanced Placement courses **MUST** provide payment for the AP Test(s) by October 1<sup>st</sup> of the current school year. All students enrolled in Advanced Placement courses **MUST** take the AP Test at the end of the course in May.

### 813-823-833-843 ACADEMIC STRATEGIES

Grades: 9, 10, 11, 12  
Credits: 1  
Level: CP

A course in communication skills is offered by the Chester County Intermediate Unit's Reading Specialist. It covers the listening, speaking, reading and writing skills needed for all content subjects. It is open to those students who need this support, as well as those who elect it and qualify for the program.



Bishop Shanahan partners with *Arrupe Virtual Learning Institute (AVLI)* as a means of providing additional course options for you to pursue interests that will help you grow to be your personal best. Beyond challenging course content, an AVLI experience fosters important life skills, and provides opportunities to learn with and from teachers and students from schools across North America. AVLI teachers are seasoned Ignatian educators from Jesuit schools throughout the United States. They are certified in the subject area in which they are teaching, and have gone through extensive training in the development and delivery of online courses. Courses are designed around a series of learning modules that students complete together. Though the delivery will be different, just like the traditional classroom, there will be lectures, discussions, projects, reading assignments, and more. Much of the work is done independently on students' own time utilizing learning tools (discussion boards, blogs, wikis, group projects) that are participative in nature. There will also be occasions when students gather online at the same time for live discussions, teacher instruction and guest lectures.

## FULL YEAR COURSES

### AP ART HISTORY

**AVAILABLE TO:** Seniors

**CREDITS:** 1 **LEVEL:** AP

**COURSE LISTING:** Art

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is MANDATORY.

**APPROXIMATE TEXT/RESOURCES COST:** \$100

The AP Art History course explores topics such as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history. Coursework is rigorous and will prepare students to sit for the AP Art History College Board exam in the spring.

### AP COMPUTER SCIENCE

**AVAILABLE TO:** Seniors

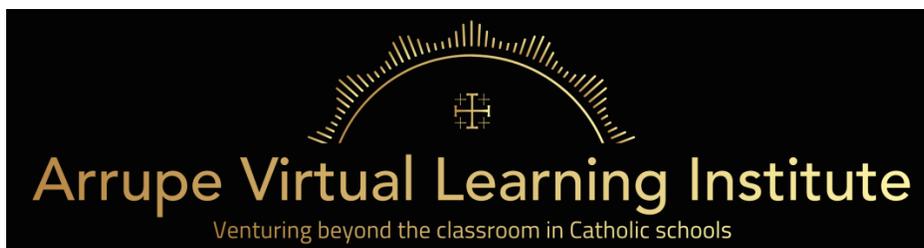
**CREDITS:** 1 **LEVEL:** AP

**COURSE LISTING:** Computer Science/ **STEM Certificate Program**

**PREREQUISITES:** Students should have successfully completed one course in a programming language such as C, C++, Visual Basic .Net, or Java. Moreover, students should know how to edit, compile, and run a program.

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$100



This course is a college level introduction to object-oriented programming in Java. Students will focus on a problem-solving approach designed to focus attention on programming algorithms and data structures. Students will be fluent in the syntax and logic structures of the Java programming language as well as familiar with the Java API. Students will attempt difficult programming challenges, reflect on these exercises, and share their discoveries with their peers. In the Spring, students will be eligible to take the AP Computer Science A Exam offered by the College Board at their school. This class will take up a lot of time, so it is recommended have room in their schedule for it.

### **AP MUSIC THEORY**

**AVAILABLE TO:** Seniors

**CREDITS:** 1 **LEVEL:** AP

**COURSE LISTING:** Music

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is MANDATORY.

**APPROXIMATE TEXT/RESOURCES COST:** \$80

This course is designed for students with a serious interest in music and is especially recommended for those considering a career in music. Topics to be studied include scales, intervals, key signatures, chords, rhythmic notation, and four-voice realization of figured bass symbols, sight-singing, and melodic dictation. There will be periodic quizzes, part-writing assignments, and listening assignments. Students who have completed this course will have a thorough understanding of the elements of music, improved listening skills and are encouraged and eligible to take the AP Music Theory Exam in the Spring. This class will take up a lot of time, so it is recommended students have room in their schedule for it.

### **AP ENVIRONMENTAL SCIENCE**

**AVAILABLE TO:** Seniors

**CREDITS:** 1 **LEVEL:** AP

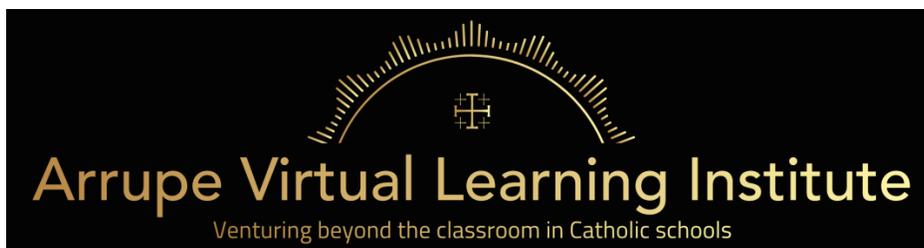
**COURSE LISTING:** Science/**STEM Certificate Program**

**PREREQUISITES:** Chemistry and Biology

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$100

The goal of the AP Environmental Science course is to provide students with the 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 and/or preventing them. Labs will be coordinated with the student's brick-and-mortar school. In the spring, students will be eligible to take the AP Environmental Science Exam offered by the College Board at their school.



### AP PSYCHOLOGY

**AVAILABLE TO:** Seniors

**CREDITS:** 1 **LEVEL:** AP

**COURSE LISTING:** Psychology/Social Studies

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$50

This AP course introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students who complete this course will be prepared to take the AP examination in the spring. This class will take up a lot of time, so it is recommended students have room in their schedule for it.

### AP STATISTICS

**RECOMMENDED FOR:** Juniors, and Seniors

**COURSE LISTING:** Mathematics

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$60 This course prepares students to take the Advanced Placement national exam in elementary statistics. It develops an intuitive, non-calculus-based understanding with an emphasis on doing statistics. Statistics makes sense of data. It consists of a set of tools that allow us to make inferences in the face of uncertainty. Statistical methods draw from the Gaussian (normal, bell shaped) distribution as well as the binomial and chi-square distributions. We learn about data description concepts, hypothesis testing, probability, discrete and random variables, several inferential techniques, regression, and how to plan and carry out a properly designed statistical analysis.

### AP WORLD HISTORY

**AVAILABLE TO:** Seniors

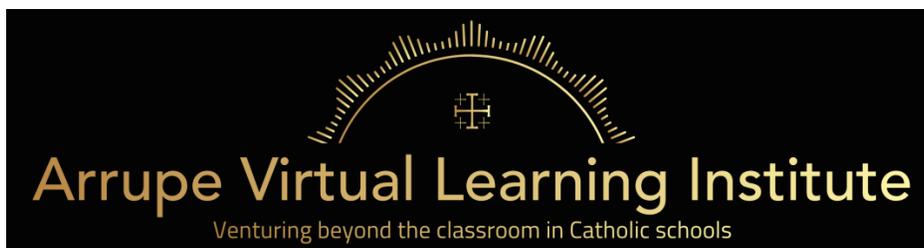
**CREDITS:** 1 **LEVEL:** AP

**COURSE LISTING:** Social Studies

**SYNCHRONOUS COMMITMENT:** This course has a bi-weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

AP World History is structured around the investigation of key course themes and concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. These themes, examined across cultures and time periods, include: Interaction between humans and the environment; Development and interaction of cultures; State-building, expansion and conflict; Creation, expansion and interaction of economic systems; Development and transformation of social structures.



## FALL (1<sup>ST</sup> SEMESTER) 2022 COURSES

Students registering for fall semester course must also register for a spring semester course.

### BIOETHICS: NAVIGATING THE ETHICAL DILEMMAS OF OUR FUTURE

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Theology/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course is a general introduction to ethical theory and reasoning and its application to a number of hot current world issues, with particular emphasis on bioethics (moral dilemmas of modern biological and medical fields). It begins by addressing the question, why do ethics and moral decision-making matter at all in a world we see operating so frequently without them? It surveys major ethical paradigms (common-good ethics, rights Go to Course List ethics, virtue ethics, and ethical relativism) and considers how each can help and hinder our pilgrimage to responsible, life giving choices for us and for our larger human family. Respectful consideration of opposing viewpoints, including the official teachings of the Catholic Church, is a hallmark of the course. By the end of the course, students should be able to manage some real cases on a committee of fellow ethicists using the vocabulary germane to ethicists in hospitals today.

### DIGITAL PHOTOGRAPHY

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Art

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided) **\*\*Students must have access to Digital SLR camera and the ability to use it outside of school.**

Digital Photography is a semester course designed for beginning photographers. Students will learn the basics of photography and fine-tune their camera skills. The course will also cover composition and the principles of design that work to create an aesthetically pleasing photo. The course will not cover photo editing and retouching, but will focus on getting good images that don't need editing. **\*\*Students must have a Digital SLR camera.**

### LAW AND SOCIETY

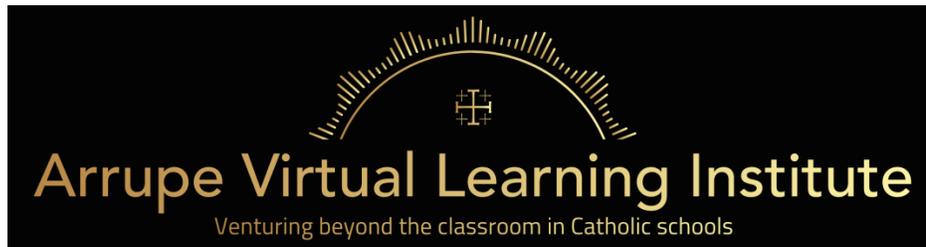
**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Social Studies

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$60



Law & Society features the study of the political nature of state and federal level courts, while paying particular attention to contemporary issues related to the judiciary. The course will provide a foundation for legal study through surveying 1) the historical development of the courts, 2) controversial issues surrounding the essence of court authority, 3) state and federal court structures and operations, and 4) case study areas related to civil rights and liberties. Students will have the unique opportunity to become acquainted with fundamental aspects of the American legal system, and be afforded educational exposure to issues applicable as both citizens and students in the historical field of law. Class methods will include discussion, lecture, case-summary writing, historical research, and other related techniques. *Note: this course is not designed to be the basis of professional legal training. It is a general survey course designed to provide students with historical and contemporary practical learning material.*

### **MULTIMEDIA AUTHORSHIP—THE POWER OF WORDS AND IMAGES**

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** BCIT/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course aims primarily to develop communication skills through student expression of his or her ideas using multimedia technology. Students will study models of multimedia composition used by professional and student writers and then create their own multimedia content, pushing the students to a mastery of the concepts and technical skills the composition requires. In order to fully participate in the class, the student must have a computer (Mac or Windows) on which he or she can install new programs. They will also need access to a digital camera. The semester will culminate with each student producing an original, substantive multimedia project on a topic of the student's choice.

### **POWERED BY: THE SCIENCE OF ENERGY**

**AVAILABLE TO:** Juniors and Seniors

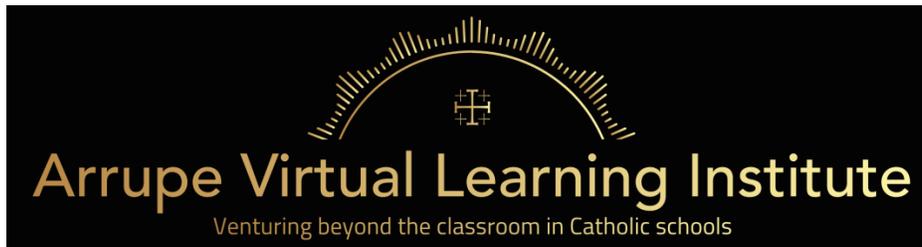
**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Science/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course introduces students to the science that underscores the challenges of producing energy for tomorrow. Topics discussed in this course include but are not limited to thermodynamics, electromechanical energy conversion, and the challenges of energy transportation. We will then explore various energy sources including traditional fossil fuels, solar, geothermal, nuclear, and wind energy.



**UNDERSTANDING ARTIFICIAL INTELLIGENCE: THE SCIENCE AND MORALTY**

**AVAILABLE TO:** Juniors and Seniors

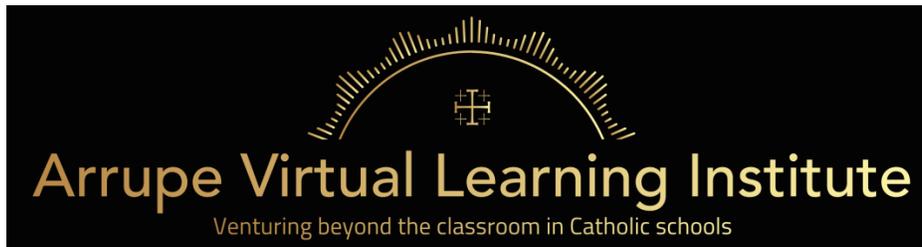
**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Computer Science/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course explores the reality of machine learning in particular and applications of artificial intelligence systems generally. It also examines the moral implications and boundaries of AI in a just society. Machine learning is the study of algorithms and statistical models that computer systems use to perform tasks without using explicit instructions, relying on patterns and inference instead. Students will explore how AI can help human beings, what threats exist, and how to balance what can be done with what should be done.



## SPRING (2<sup>nd</sup> SEMESTER) 2023 COURSES

Students registering for spring semester course must also register for a fall semester course.

### BIOETHICS: NAVIGATING THE ETHICAL DILEMMAS OF OUR FUTURE

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Theology/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course is a general introduction to ethical theory and reasoning and its application to a number of hot current world issues, with particular emphasis on bioethics (moral dilemmas of modern biological and medical fields). It begins by addressing the question, why do ethics and moral decision-making matter at all in a world we see operating so frequently without them? It surveys major ethical paradigms (common-good ethics, rights Go to Course List ethics, virtue ethics, and ethical relativism) and considers how each can help and hinder our pilgrimage to responsible, life giving choices for us and for our larger human family. Respectful consideration of opposing viewpoints, including the official teachings of the Catholic Church, is a hallmark of the course. By the end of the course, students should be able to manage some real cases on a committee of fellow ethicists using the vocabulary germane to ethicists in hospitals today.

### CATHOLIC AUTHORS

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** ELA

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

The Roman Catholic Church is richly blessed with many wonderful authors who write passionately and compellingly about our faith. How many do you know? Augustine, Aquinas, Belloc, Chesterton, Dante, Day, Endo, Finnis, Greene, L'engle, Merton, O'Connor, Percy, Tolkien, and so many more. This course explores several diverse Catholic authors and their works and ideas, hones students' critical reading and interpretative skills, and brings students together from Catholic schools around North America to celebrate our rich literary heritage through individual and group projects and presentations.

### **COMIC BOOK FICTION**

**RECOMMENDED FOR:** Seniors

**COURSE LISTING:** English & Communications

**PREREQUISITES:** English III

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is MANDATORY.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

Literature is paradoxical by nature: it attempts to hold a critical mirror up to the very society that produced it and of which it is part, and so it requires skill to uncover what authors want to say, what they do say, and, critically, what they don't say. Comic books are no different. Despite being marginalized by traditional literary circles, comic books feature the same literary techniques and devices as canonized literature and therefore offer an accessible entryway into literary analysis. In this course, you will learn and/or sharpen reading, writing, and analytical skills while reading some of the most lauded comic book titles. Join me, the X-Men, Spiderman, and Batman among others on an epic literary journey.

### **COMPUTER GAME DEVELOPMENT**

**AVAILABLE TO:**

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Technology/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is OPTIONAL.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course explores the process of game development, the principles of game design, styles/genres of computer games, techniques for game software engineering, and information about the computer game industry. Emphasis will be on pragmatic advice for game designers, together with techniques for game balance and analysis. Students will design and playtest a game as a course project. Group work is emphasized, especially the importance of collaboration between technical and artistic efforts. Students are expected to participate in game development using appropriate game development tools.

### **DATABASE DEVELOPMENT FOR REAL WORLD PROBLEMS**

**AVAILABLE TO:**

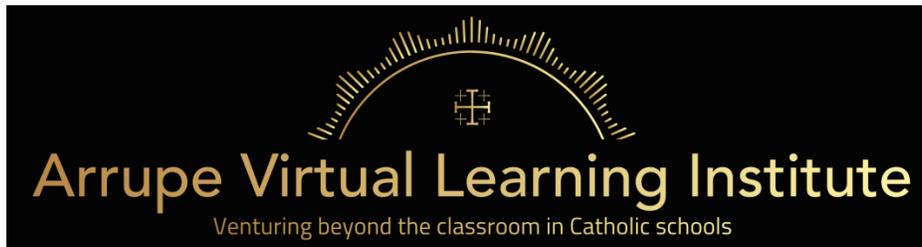
**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Technology/**STEM Certificate Program**

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is MANDATORY.

**APPROXIMATE TEXT/RESOURCES COST:** \$30

This course introduces students to Microsoft Access in order to teach database and programming concepts and will show how to use Access as a real-world problem-solving tool through the building of an actual database. Access is part of the Microsoft suite and allows you to organize, manage, collect, analyze, and report on data using 'objects' within Access that you learn to design and build. Students will organize and develop a database throughout the course based on an idea from their school or personal life. Past students have built databases on topics as wide ranging as tracking and rating recipes, entering college applications and showing college acceptance/financial aid, and rankings of different brands and types of audio headphones.



### **GENOCIDE AND THE HOLOCAUST**

**AVAILABLE TO:** Juniors and Seniors

**CREDITS:** .5 **LEVEL:** Honors

**COURSE LISTING:** Social Studies

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources provided)

This course takes a look at both the academic and social constructions of genocide. We will view the Holocaust as the paradigmatic example of, but not only, genocide in modern history. Students will study the causes and processes of genocide as well as other contemporary crimes against humanity. Students and parents should be advised that this course utilizes intense and disturbing materials.

### **INTRODUCTION TO VETERINARY CAREERS**

**RECOMMENDED FOR:** Juniors and Seniors **COURSE LISTING:** Science

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$0 (Resources Provided)

In Introduction to Veterinary Careers, students will investigate the vast field of veterinary medicine, from entering the field to living and growing within it. They will explore educational and licensing requirements, the varied jobs within the profession, and the reality of everyday life as a veterinarian (or veterinary support staff). The class will emphasize personal discovery of an individual's options for education and careers as well as considering his or her own strengths, weaknesses, and interests as they relate to veterinary careers. Finally, students will consider social and ethical challenges they may encounter to help them discern if veterinary medicine is right for them.

### **MODEL UNITED NATIONS/INTERNATIONAL RELATIONS (MUNIR)**

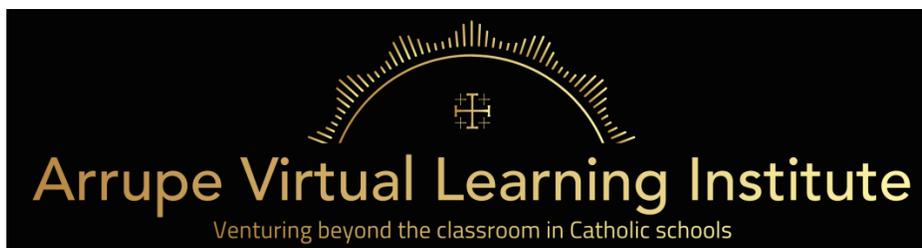
**RECOMMENDED FOR:** Juniors and Seniors

**COURSE LISTING:** Social Studies

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **MANDATORY**.

**APPROXIMATE TEXT/RESOURCES COST:** \$25

Model United Nations is an educational simulation and academic competition in which students learn about diplomacy, international relations, and the United Nations. International Relations is an academic course designed to examine the behavior of nations and states both individually and collectively. When you combine the two—that is, using the Model UN platform to examine the state of International Relations today, you have an interesting, intriguing, and fun way to enhance both your perception of global issues and your position as a citizen of your country and the global community. This is not a course that will drown itself in theory. Rather, it is designed to offer opportunities for students to study modern global issues, and the positions and interactions of nations and states, through research, simulations, discussion, and written assignments. Students are assigned a country at the beginning of the semester and represent that country during



simulations, constructing position papers, resolutions, and amendments. Several seminars encourage students to participate in online discussion to resolve, or perhaps merely to understand better, an issue. Since committee work is such a vital part of the course, significant online interaction via email, video conferencing, or texting is a must for success. Simulations are based on the United Nations format.

**STATISTICAL REASONING IN SPORTS**

**RECOMMENDED FOR:** Juniors and Seniors

**COURSE LISTING:** Mathematics

**PREREQUISITES:** Algebra I and II

**SYNCHRONOUS COMMITMENT:** This course has a weekly synchronous meeting that is **OPTIONAL**.

**APPROXIMATE TEXT/RESOURCES COST:** \$90

The purpose of this course is to learn the foundational concepts and tools of descriptive and inferential statistical reasoning in a fun way. This is an introductory, non-AP course, that covers most of the concepts in an introductory statistics course by working with data from high school, amateur, and professional sports. In our data-saturated world, citizens must be able to ask thoughtful questions, properly analyze data, and, most importantly, use critical thinking skills to draw appropriate conclusions and recognize inappropriate conclusions made by others. A culminating activity will include applying course concepts by analyzing data from a selected school sport activity, assuming approval from school administration and coaching staff.

**Fees for AVLI Courses**

1 Credit Course (full year class)	\$319.20
.5 Credit Course (semester classes)	\$220.00

**AVLI COURSE DROP POLICY**

AVLI courses may not be dropped after the add/drop period established by AVLI. Families will be charged full tuition fees for courses once the add/drop period has expired.



*Partnership with  
Bishop Shanahan High School*

- ❖ Courses will be taught on the Shanahan campus by an Immaculata instructor.
- ❖ The cost for each course is \$300/semester. (\$100.00 per credit). The fee must be paid to Immaculata before the first class meeting. **An agreement of payment must be signed.**
- ❖ Texts must be purchased by the student.
- ❖ Students will receive dual credit (high school credit and Immaculata University credit).
- ❖ Seniors and/or Juniors wishing to enroll in these courses must apply through the Office for Academic Affairs.
- ❖ AP quality points will be given for these courses.
- ❖ Students enrolled in these courses will have access to the Immaculata University library data base.

2022-2023

1st Semester

**255-01 Foundations in Psychology (3) PSY 101**

Introductory examination of the fundamental concepts of psychology with particular emphasis on the description of normal human behavior, the methodology by which it is studied, and the factors influencing its modification.

**255-02 Intro to Criminal Justice (3) SOC 317**

A broad overview of the operations of the administration of justice and a description of the criminal justice system from arrest to parole, examining the issue of crime and focusing on the specific agencies and actors who constitute the system of criminal justice - police, courts, and correctional agencies.

**255-01 Accounting and Budgeting (3) ACC 201**

An introduction to accounting information and the basic accounting cycle. Techniques of accounting for business transactions, preparation and interpretation of financial statements for internal control and external reporting and for use in making sound business decisions, forecasting and budgeting methods.

**255-01 Introduction to Sociology (3) SOC 202**

Introduction to the analysis of sociocultural behavior; emphasis is upon the development of the social individual, collective and group behavior, social institutions and culture. The presentation of basic terms, concepts, and theories provide an understanding of the functioning of society and society's impact on the individual.

**2022-2023**

**2nd Semester**

**255-01 Foundations in Psychology (3) PSY 101**

Introductory examination of the fundamental concepts of psychology with particular emphasis on the description of normal human behavior, the methodology by which it is studied, and the factors influencing its modification.

**255-02 Intro to Criminal Justice (3) SOC 317**

A broad overview of the operations of the administration of justice and a description of the criminal justice system from arrest to parole, examining the issue of crime and focusing on the specific agencies and actors who constitute the system of criminal justice - police, courts, and correctional agencies.

**255-01 Personal Finance (3) BUS 302**

Introduction to personal financial evaluation, management, and planning. The course provides the student with an understanding of consumer credit, life insurance, health insurance, property and casualty insurance, wills, trusts, Social Security, stocks, bonds, real estate, mutual funds, retirement planning, and other topics.

**255-02 Philosophy and Film (3) PHI 338**

Engagement of fundamental questions combines with the fundamentals of the film medium. We will explore the nature, interpretation, and value of film. We will also consider, through our experience of different genres, styles, and techniques, how film enhances and/or alters our view of life.



## *Partnership with Bishop Shanahan High School*

### Fall 2022

PHIL 102: Exploring Ethics  
3 Credits

In this course, students explore fundamental ethical questions and gain a framework that they can use to think through ethical issues that confront them as human beings, responsible citizens, and emerging leaders in a global community. The course aims to enhance the student's abilities to think critically and reflectively. Through study of a variety of ethical approaches, students explore the meaning of self and society, and reflect on the compatibility of faith and reason with specific reference to the Catholic Franciscan intellectual and spiritual tradition.

### Spring 2023

MGT 100: Principles of Management  
3 Credits

This course introduces the basic managerial functions and reviews the key principles and theories that have influenced the field of management since the advent of the modern corporation. Topics covered include: the evolution of management thought, international management, planning and decision-making, organizing and managing human resources, motivating and leading, and management's social and ethical responsibilities.

### Additional Information

- ❖ Courses will be taught on the Shanahan campus by a Neumann University instructor.
- ❖ The cost for each course is \$300/semester. (\$100.00 per credit). The fee must be paid to Neumann before the first class meeting. **An agreement of payment must be signed.**
- ❖ Texts must be purchased by the student.
- ❖ Students will receive dual credit (high school credit and Neumann University credit).
- ❖ Seniors and/or Juniors wishing to enroll in these courses must apply through the Office for Academic Affairs.
- ❖ AP quality points will be given for these courses.



## *Partnership with Bishop Shanahan High School*

### *AMERICAN SIGN LANGUAGE (Online, Dual Enrollment)*

Through a partnership with Gallaudet University and the Archdiocesan Office for Persons with Disabilities & Deaf Apostolate, Bishop Shanahan is proud to offer American Sign Language classes, ASL I, beginning in the Fall of 2022. According to a study done by Gallaudet University, American Sign Language (ASL) is one of top four languages used in America. Learning ASL as a second language has many cognitive and social benefits. Students will develop social justice awareness, help reduce stigma that surrounds those who are deaf, and explore a rich aspect of cognitive, creative, linguistic and cultural diversity of humanity. The students learn to navigate language through visual and gestural manner and discover the richness and depth of ASL linguistics. Learning ASL can become a building block for employment opportunities if students continue their study in college to become an interpreter. For example, the Catholic Deaf Apostolate regularly employs ASL interpreters for Masses, Sacraments, and parish school meetings. There are other places in demand for interpreters including hospitals, courts, government agencies, and community activities.

This online course is eligible for college credit through Gallaudet University, and will be delivered completely online through a mix of synchronous and asynchronous instruction. Open to students in grades 11 and 12.

## CHESTER COUNTY TECHNICAL COLLEGE HIGH SCHOOL

Students in eleventh and twelfth grades may participate in one of the 31 different outstanding career and technical programs offered at the Chester County Technical College High School (TCHS) in Downingtown.

Students who choose to attend the TCHS are scheduled at the “home school” for required academic courses. They attend the morning session at TCHS that runs from 7:50 to 10:30 AM.

Bus transportation is provided by the local school district and is available in the morning at Bishop Shanahan.

Students receive two credits per year towards graduation if courses are completed with a satisfactory grade average.

The Chester County Technical High School offers courses in the following areas:

Animal Science	Electrical Occupations
Automotive Collision Technology	Electromechanical Engineering Technology
Automotive Service Technology	Electronic Systems Technology
Baking & Pastry Arts	Engineering & Robotics
Barbering	Engine Technology
Carpentry	Health Career Pathways
Commercial & Graphic Arts	HVAC & Refrigeration Technology
Computer Information Systems-Networking	Marketing & Financial Services
Computer Information Systems-Programming	Precision CNC Machining
Cosmetology	Veterinary Science
Criminal Justice & Police Sciences	Welding & Metal Fabrication
Culinary Arts	*Allied Health
Digital Media & Sound Communications	*Geographic Information Systems & Data Science
Early Childhood Care & Education	*Teacher Leadership Academy

\*Senior only programs

**Allied Health Program:** This prestigious program is for seniors who are planning to pursue post-secondary education in a health-related career. Students are given an opportunity to explore many health-care occupations as they participate in 7.5 hours per week of clinical and classroom education in a local hospital facility.

**Teacher Leadership Academy:** This highly regarded program gives seniors who are interested in pursuing a teaching career the opportunity to study practical theories regarding teaching and to intern at local schools with professional teachers. The Teacher Academy is an intensive training program designed to give students in-depth teaching experiences alongside teacher mentors.

**Geographic Information Systems & Data Science:** Through a partnership with West Chester University, TCHS offers a program that is an excellent fit for students who love computers, telling stories using visual elements, and looking at big picture ideas. GIS is a fast-growing industry that allows individuals to take large quantities of data and lay them over a geographic space to draw new insights.

Students interested in courses at TCHS or in the Allied Health or Teacher Leadership Academy programs should report to the Guidance Office for information or log onto [www.technicalcollegehighschool.org](http://www.technicalcollegehighschool.org).

## GUIDANCE DEPARTMENT

The Guidance Program at Bishop Shanahan High School is a comprehensive, developmental program concerned with the educational, emotional, and social development of all students. A basic assumption of the program is that individuals, from time to time, require help in understanding themselves in relation to the world and dealing with the immediate problems they face.

Services offered include educational, college, career and personal counseling, parental consultation and referral to outside specialists when appropriate.

In addition to the regular counseling services available to the student, the Guidance Department also provides the services of a Student Assistance Program. The Student Assistance Team includes members of the faculty, staff and administration. Bishop Shanahan's SAP Team is an outgrowth of the statewide Student Assistance Program. The SAP Team seeks to identify students who may be having serious problems and provides the students and their families appropriate sources of assistance. The SAP program also sponsors support groups throughout the year.

## COLLEGE/CAREER GUIDANCE

College and career guidance involves individual, small group and classroom sessions with students to assist in planning for the future.

With the help of internet programs and various reference books, students can begin their initial investigation into college and career opportunities. Shanahan provides Naviance Student, a Web-based purchased service designed especially for students and families. Naviance Student is a comprehensive website that you can use to help in making decisions about your courses, colleges, and careers. Naviance Student is linked with Counselor's Office, a service that we use in our office to track and analyze data about college and career plans, so it provides up-to-date information that's specific to our school.

To access Naviance Student, you will need a personal access code, which the Guidance Department provides to each student. You can log onto your Naviance Student account at <http://student.naviance.com/bishopshan>.

The following college and career resources and services are also available:

- Naviance
- Fall College Fair
- An Internet Directory for College, Scholarship, and Career Sites
- Visits by College Representatives
- Visits by the Armed Forces
- College Instant Decision Days at Bishop Shanahan

## ROSTERING

### Grade 10, 11, 12

There are several steps in rostering at Bishop Shanahan. They are the following:

- Late-February: Class Roster Meetings and Publication of the Course Catalog
- Early March: Students are recommended for placement in their respective classes. The Department Chair and current teacher confer upon this process.
- Late March: All course selection will take place on-line via PowerSchool.
- Students will have access to on-line course selection beginning in late March; at this time, students will select from all courses for which they have met the necessary prerequisites.
- Finalized course selection forms are mailed to parents indicating the courses and the tracks of the subjects for which students have been approved for the following school year.
- Parents and students' signatures are required for formal registration along with the required registration fee. **This is the formal registration for the following year.**
- The student's individual roster will then be processed.
- **All students rostered for an AP class are required to pay for and take the AP exam. AP classes may not be dropped after June 15.**
- Rosters will be viewable on PowerSchool in August. At that time dates will be assigned when roster conflicts can be adjusted prior to the opening of school.
- Rosters **WILL NOT** be changed due to:
  - Dissatisfaction with a course or teacher
  - Displeasure with a schedule
  - Desire for early dismissal
  - Desire for a different lunch or study hall
- Students are required to carry all chosen courses, including electives, for the entire year.

**STUDENTS WHO DO NOT MEET THE DEADLINE DATES WILL BE CHARGED A LATE FEE OF \$25.00**

## Grade 9

During the late spring the formal process of preparing rosters for the incoming freshman class begins. By that time the vast majority of our future students are registered and their current schools have provided us with records including grades and standardized test scores. The sequence of steps in the rostering process for incoming freshmen is as follows:

- Almost all ninth graders will take seven courses all of which are required for graduation. The primary concern of the Office for Academic Affairs when rostering freshmen is to identify the best placement for these students in the subject areas.
- If you have not already done so, you are encouraged to review the information concerning placement in the assistant principal's letter at the beginning of the catalog. The major difference between the levels of difficulty is the pace of instruction and the level of difficulty of assessment. For required courses the curriculum is fundamentally the same. While the process described below is used to place students in the ninth grade, the major criteria for placement changes in subsequent grades is based on class rank and student performance in the preceding courses.
- In February, information concerning seventh and eighth grade grades along with standardized test score data becomes part of the data records for each registered student.
- In early June, eighth grade students who are enrolled in recognized accelerated programs for math, science and world language in the public and private schools are invited to "test-out" of grade 9 level courses in these areas. Based on the results of this testing, qualified students are placed in next level courses, i.e. Spanish II instead of Spanish I.
- The registration program that is part of our administrative computer system is used to generate indexes for the various subjects. These indexes rank students based on their grades and standardized test scores. Different rankings are generated for different subject areas by placing primary emphasis on those subject area grades. For example, the index for English and Social Studies uses language arts, reading and social studies grades and standardized test scores but does not factor in the students' math grades and standardized test scores to determine this index.
- Separate indexes (rankings) are generated for English and Social Studies, Science, and Mathematics.
- Generally greater emphasis is given to standardized test scores than subject grades in developing these indexes. Most incoming students have taken the Terra Nova or PSSA test. The local percentiles from this test are used to develop the index. The local percentiles from these tests are considered the most valid basis for comparing the abilities and performance of students from a variety of elementary and middle school who will become our freshman class.
- The student's individual rosters will then be developed. Rosters will be mailed to parents/students in August. At that time dates will be assigned when roster conflicts can be adjusted prior to the opening of school.
- Rosters **WILL NOT** be changed due to:
  - Dissatisfaction with a course or teacher
  - Displeasure with a schedule
  - Desire for early dismissal
  - Desire for a different lunch or study

## ROSTER CHANGE

**At the end of the first cycle of classes (six days), the roster conflict and change process is concluded.**

The rostering process allows ample time for students and parents to consider course selection decisions. The necessity to consider changing or dropping a course once the school year has begun should be for serious and compelling reasons. Course change and drop requests will be reviewed by the instructor and appropriate chairperson. The instructor and chairperson will make a recommendation to the assistant principal for academic affairs.

Rosters **WILL NOT** be changed due to: dissatisfaction with a course or teacher, displeasure with a schedule, desire for early dismissal, and/or desire for a different lunch or study hall.

Electives are courses opted for by the student to either fulfill requirements or to satisfy a seven-period class day. Students are required to carry all chosen courses, including electives, for the entire year. Serious consideration should be given to any and all elective courses chosen by the student. **No permission will be granted to drop a class, including electives, after the second week of school.**

## TRANSCRIPTS

Official transcripts must be sent by MAIL to any institution requesting such information.

It is the policy of Bishop Shanahan High School, in accordance with the Diocesan policy, not to send any transcripts if the student's tuition and fees are not up to date.

## REQUIRED COURSES

Each student is required to carry a course load resulting in seven (7) credits in Grades 9 and 10. For Grades 11 and 12 each student is required to carry a course load resulting in at least six (6) credits. Archdiocesan policies require 26 credits for graduation.

The following courses are required in each year. The remaining number of electives may be selected from the elective courses offered in the various departments.

<b>FRESHMAN YEAR</b>	<b>SOPHOMORE YEAR</b>	<b>JUNIOR YEAR</b>	<b>SENIOR YEAR</b>
Theology 1	Theology 2	Theology 3	Theology 4
English 1	English 2	English 3	English 4
World History	American Gov&Politics	United States History	4 or 5 Electives
Algebra 1 or Algebra 2	Mathematics	Mathematics	
Science	Science	Science	
Foreign Language/ Academic Strategies	Foreign Language/ Academic Strategies	1 or 2 Electives	
Related Arts or Intro to Art (1 Semester) Info Technologies 1 (1 Semester)	Physical Education (1 Semester) Health (1 Semester)		

## GRADUATION REQUIREMENTS

The State of Pennsylvania requires 4 credits in English, 2 credits in Western and non-Western Cultures, 1 credit in American Studies, 3 credits in Mathematics, 3 credits in Science and 5 credits in electives. A course in Physical Education, Health, Related Arts and Information Technologies 1 is also required. The Archdiocese of Philadelphia requires 4 credits in Religious Studies and a total of 26 credits in order to receive a diploma from an Archdiocesan High School.

**METHOD OF OBTAINING HONORS  
BY GENERAL AVERAGE**

Each grade for tracked courses is multiplied by the credits associated with that course and rounded to the nearest whole number. The results are accumulated. The credits for tracked courses are also accumulated.

The accumulated credits are divided into the accumulated grades; the result is rounded to the nearest whole number.

**EXAMPLE:**

<u>COURSE</u>	<u>TRACK</u>	<u>CREDIT</u>	<u>GRADE</u>	<u>RESULTS</u>	
THEOLOGY	2	1.00	90	90	
ENGLISH	2	1.00	85	85	
SOCIAL STUDIES	Honors	1.00	90	90	
MATHEMATICS	2	1.00	89	89	
SCIENCE	Honors	1.00	91	91	
LANGUAGE	2	1.00	85	85	<b>GENERAL</b>
HEALTH/PHYS.ED.	2	1.00	95	95	<b>AVERAGE</b>
		7.00		625	89

**REQUIREMENTS FOR FIRST HONORS**

General Quarterly Average of 93; no grade below 90.

**REQUIREMENTS FOR SECOND HONORS**

General Quarterly Average of 88; no grade below 85.

**N.B.**

A failure in any minor subject or an incomplete in any subject eliminates a student from either honor roll. A “W” or an “I” in any subject eliminates a student from the honor roll. It is considered a failure until it is rectified.

## QUALITY POINTS TABLE

<u>Grade</u>	<u>Advanced Placement</u>	<u>Honors</u>	<u>CP</u>	<u>Academic</u>
100	54	48	44	40
99	53	47	43	39
98	52	46	42	38
97	51	45	41	37
96	50	44	40	36
95	49	43	39	35
94	48	42	38	34
93	47	41	37	33
92	46	40	36	32
91	45	39	35	31
90	44	38	34	30
89	43	37	33	29
88	42	36	32	28
87	41	35	31	27
86	40	34	30	26
85	39	33	29	25
84	38	32	28	24
83	37	31	27	23
82	36	30	26	22
81	35	29	25	21
80	34	28	24	20
79	33	27	23	19
78	32	26	22	18
77	31	25	21	17
76	30	24	20	16
75	29	23	19	15
74	28	22	18	14
73	27	21	17	13
72	26	20	16	12
71	25	19	15	11
70	24	18	14	10
69	23	17	13	9
68	22	16	12	8
67	21	15	11	7
66	20	14	10	6
65	19	13	9	5
64	18	12	8	4
63	17	11	7	3
62	16	10	6	2
61	15	9	5	1
60	14	8	4	0

Each course earns a number of quality points determined by the credit given the course, the track and the grade earned.

## RANK IN CLASS WILL BE DETERMINED BY AVERAGE QUALITY POINTS

This is determined in the following manner. The quality points earned in a course are multiplied by the credits given for that course. These points are added to determine the total quality points. The total number is then divided by the number of credits using the adjustment table indicated below. This gives an advantage to those students who carry a heavier course load.

ADJUSTMENT TABLE		
	<u>Credits</u>	<u>Subtract</u>
Between	0.00 and 5.00	0.00
	5.01 to 5.99	0.10
	6.00	0.15
	6.01 to 6.99	0.20
	7.00	0.25

Therefore, a student who earned 283 quality points in courses worth 7 credits would have the total divided by 6.75 and would receive a quality point average of 41.93.

## Weighted GPA

<b>Grade</b>	<b>AP</b>	<b>Honors</b>	<b>CP</b>	<b>Academic</b>
100	6.0	5.5	5.0	4.5
99	6.0	5.5	5.0	4.5
98	6.0	5.5	5.0	4.5
97	6.0	5.5	5.0	4.5
96	5.7	5.2	4.7	4.2
95	5.7	5.2	4.7	4.2
94	5.7	5.2	4.7	4.2
93	5.4	4.9	4.4	3.9
92	5.4	4.9	4.4	3.9
91	5.4	4.9	4.4	3.9
90	5.1	4.6	4.1	3.6
89	5.1	4.6	4.1	3.6
88	5.1	4.6	4.1	3.6
87	4.8	4.3	3.8	3.3
86	4.8	4.3	3.8	3.3
85	4.8	4.3	3.8	3.3
84	4.5	4.0	3.5	3.0
83	4.5	4.0	3.5	3.0
82	4.5	4.0	3.5	3.0
81	4.2	3.7	3.2	2.7
80	4.2	3.7	3.2	2.7
79	4.2	3.7	3.2	2.7
78	3.9	3.4	2.9	2.4
77	3.9	3.4	2.9	2.4
76	3.9	3.4	2.9	2.4
75	3.6	3.1	2.6	2.1
74	3.6	3.1	2.6	2.1
73	3.6	3.1	2.6	2.1
72	3.3	2.8	2.3	1.8
71	3.3	2.8	2.3	1.8
70	3.3	2.8	2.3	1.8
69	0	0	0	0
68	0	0	0	0
67	0	0	0	0
66	0	0	0	0
65	0	0	0	0

## EDUCATIONAL INTEGRITY

Integrity is that quality by which a person is true to his or her convictions in the face of opposition. It is a value that Bishop Shanahan High School endorses, a value we encourage our students to adopt. Consequently, any student who violates educational integrity and engages in any form of cheating, plagiarizing, or stealing of academic material is subject to both academic and disciplinary penalties.

1. Cheating is defined as the giving, receiving or copying of information by any means, including the use of electronic devices, for class work, homework, reports, projects, quizzes, tests, or assessments.
2. Plagiarism is defined as the submission of work that is determined by the teacher not to be original. If a student has consulted a source, whether published or not, and has incorporated any language, structure, ideas, or thought into his or her work without acknowledging that source, the student is guilty of misrepresenting the work as his or her own.
3. Stealing is defined as the taking, copying, or examining academic materials belonging to other students with or without their permission or to teachers without their permission.

Penalties will be determined by the teacher in consultation with the Department Chair, and may include:

1. A zero (0) in the class work or homework assignment, report, project, quiz, test, assessment, etc. thereby resulting in an automatic lowering of the quarter, semester, and final grades.
- 2A. If the zero (0) is for a major grade, the matter will be reviewed by the Department Chair in consultation with the Assistant Principal for Academic Affairs. This may result in a grade as low as 60 for the quarter.
- 2B. Demerits and/or detention if approved by the administration.
- 2C. Any other consequence deemed appropriate by the Administration. The student's parents will be notified by the teacher in writing (notation on Progress Report or Report Card), by phone call, or by email.

## GRADING

Report cards are distributed quarterly. Tentative distribution dates appear on the school calendar. The highest report card grade that may be given is 100; the lowest passing grade is 70; the lowest failing grade is 60.

Excellent (A)	90-100	Passing (D)	70-72
Superior (B)	80-89	Failing (F)	Below 70
Average (C)	73-79		

The quarter grade reflects the progress that a student has made during that period. This grade reflects achievement on major tests and quizzes, completion of homework assignments, and classroom participation. These are major components in determining the quarter grade. Major projects and research papers, which are reasonably spaced over the quarter, are also used.

The semester grade is computed by adding the two quarters' grades. The final grade is the average of the two semester grades.

## FAILURE WARNINGS

When a student is not performing at a satisfactory level or is in danger of failing for the semester or the entire school year, notification will be sent to the parents/guardians at least twenty school days before the close of the marking period. Approximate dates are noted on the school calendar. A notice of unsatisfactory work may be issued later in the marking period if the student's academic performance changes dramatically.

**Teachers are not required to issue a failure warning for a potential quarter failure.**

## FAILURE AND SUMMER SCHOOL POLICY

Bishop Shanahan follows the Archdiocesan policy regarding summer school which states, "All students in archdiocesan high schools with final failures in major subjects, both required and electives, **must attend an approved Archdiocesan Summer School Program.**"

A senior who fails any subject, elective or required, must attend the archdiocesan summer school, may not participate in the graduation exercises, and does not receive a diploma until the successful completion of summer school.

Archdiocesan directives state that students with excessive absences (20), not excused by medical certification, do not successfully complete the school year until they make up the time missed in an approved diocesan summer school. This applies even though there are no academic failures. In this situation, the student attends the classes in which the lowest passing grade was received.

## STATEMENT OF POLICY ON DISMISSAL AND ACADEMIC PROBATION

The following is the diocesan policy on dismissal and probation.

1. Students who receive THREE scholastic failures at the end of the school year are liable to dismissal.
2. Any student with two failures at the end of the school year is put on probation. If this student has two failures at the end of the following year then he/she is liable to dismissal. If he/she has one failure at the end of the following year he/she remains on probation. If he/she should have two failures the next year while still on probation, he/she is liable to dismissal.
3. Ninth grade students with five (5) failures at the end of the first semester are liable to dismissal.
4. Tenth, Eleventh, and Twelfth grade students with four (4) failures at the end of the first semester are liable to dismissal.
5. Students on probation who have three (3) failures at the mid-term are liable to dismissal.

**IT SHOULD BE NOTED THAT THE STUDIES OFFICE, ASIDE FROM THE REGULATIONS CITED ABOVE, HAS THE RIGHT TO PLACE ANY STUDENT ON ACADEMIC PROBATION IF SUCH ACTION IS DEEMED NECESSARY.**

**ANY SENIOR STUDENT WHO HAS ANY FAILURE IN JUNE CANNOT PARTICIPATE IN THE GRADUATION CEREMONY. A DIPLOMA WILL NOT BE AWARDED UNTIL THE FAILURE HAS BEEN RECTIFIED.**

## Textbooks

The following is a listing of the textbooks in use in the various academic areas during the 2022-2023 school year.

Department	Title	Publisher	Author(s)	Grade	Level
<b>Theology</b>	1 <sup>st</sup> Semester--Jesus Christ: God's Revelation to the World	Ave Maria Press 2010	Michael Pennock	9	
	2 <sup>nd</sup> Semester--Jesus Christ: His Mission and Ministry	Ave Maria Press 2011	Michael Pennock	9	
	1 <sup>st</sup> Semester—Jesus Christ: Source of Our Salvation	Ave Maria Press 2011	Michael Pennock	10	
	2 <sup>nd</sup> Semester--The Church: Christ in the World Today	Ave Maria Press 2015	Martin C. Albl	10	
	1 <sup>st</sup> Semester--The Sacraments: Encounters with Christ	Ave Maria Press 2015	Joanna Dailey	11	
	2 <sup>nd</sup> Semester—Your Life in Christ: Foundations in Catholic Morality	Ave Maria Press 2008	Michael Pennock	11	
	Church History-This Is Our Church The History of the Church	Ave Maria Press 2008 MTF-Midwest Theological Forum	Michael Pennock Very Rev. Peter Armenio	12	
	Christian Vocation-Vocation: Universal Call to Holiness	MTF-Midwest 2014	Susan Stark	12	
<b>English</b>	Prentice Hall Literature Common Core Edition	Pearson 2012		9	All
	HMH Into Literature	HMH 2020	Beers, Hougen, Izquierdo	10	All
	Prentice Hall Literature Common Core The American Experience PT I & II	Pearson 2013		11	All
	The Language of Composition	BFW Publishers 2018	Shea, Scanlon, Aufses, Pankiewicz	11	AP
	British Literature Contemporary Studies			12	All
	Literature: An Intro to Fiction, Poetry, Drama & Writing	Pearson 2007	X.J. Kennedy, Dana Gioia	12	AP

<b>Department</b>	<b>Title</b>	<b>Publisher</b>	<b>Author(s)</b>	<b>Grade</b>	<b>Level</b>
<b>Social Studies</b>	World History & Geography	McGraw-Hill, 2018	Spievogel	9	CP/H
	Magruder's American History	Pearson, 2013	McClenaghan	10	H
	Government for Everybody	AMSCO, 2010	Jantzen	10	CP
	AP US Government & Politics	Amsco, 2021	Wolford	10	AP
	Foundational Documents and Court Cases Reader, American Government: Stories of a Nation	Bedford, Freeman & Worth, 2018	Waples	10	AP
	United States History & Geography	McGraw-Hill, 2018	Appleby, Brinkley, Broussard, McPherson & Ritchie	11	CP/H
	AP United States History	AMSCO, 2021	Newman & Schmalbach	11	AP
	Documenting United States History, Reader	Bedford/St. Martin, 2016	Stacy & Heller	11	AP
	The World Today, 9 <sup>th</sup> Ed	AMSCO, 2012	Brun	12	CP/H
	Countries & Concepts, 13 <sup>th</sup> Ed	Pearson	Roskin	12	CP/H
	From Slavery to Freedom	McGraw-Hill, 2021	Franklin and Evelyn Higginbotham	12	H
	AP Economics	McGraw-Hill, 2015	McConnell, Brue & Flynn	11,12	AP
	AP Microeconomics	AMSCO, 2021	Anello & Hughes	11,12	AP
	AP Comparative Government & Politics, An Essential Coursebook, 8 <sup>th</sup> Ed	Woodyard Publications 2018	Wood	11,12	AP
	Basic Principles of American Government	Amsco	Sanford & Green	10	CP
	US Government & Politics: Preparing for the AP exam, 3 <sup>rd</sup> Edition	Amsco, 2021	Wolford	10	AP

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	<b>SPANISH TEXTS</b>				
	¡Qué chévere! 1! Texttbook + Multi-platform eBook	EMC Publishing©2016	Alejandro Vargas Bonillo Margarita María Cárdenas Inés Greenberger	9	H,CP
	¡Qué chévere! 2! Texttbook + Multi-platform eBook	EMC Publishing©2016	Alejandro Vargas Bonillo Carlos E. Calvo Karin Fajardo	9,10,11	H,CP
	¡Qué chévere! 3! Texttbook + Multi-platform eBook	Holt McDougal 2006, 2008	Alejandro Vargas Bonillo	10	H,CP
	¡Qué chévere! 4! Texttbook + Multi-platform eBook	EMC Publishing©2016	Alejandro Vargas Bonillo	10,11,12	H,CP
	Triángulo aprobado Texttbook + Multi-platform eBook	Wayside Publishing ©2013	Barbara Gatski John McMullan	11,12	AP
	AP®Spanish Preparing for the Language & Culture Examination	Pearson ©2014	José Díaz	11,12	AP
	<b>LATIN TEXT</b>				
<b>World Language</b>	Ecce Roman	Pearson, Prentice 2000	Hall, Brush, et alia	10,11,12	H
	<b>ITALIAN TEXTS</b>				
	¡Amici D'Italia! 1! Textbook + Multi-platform eBook	EMC Publishing	Alex Vargas	9,10	H
	¡Amici D'Italia! 2! Textbook + Multi-platform eBook	EMC Publishing	Alex Vargas	9,10	H
	¡Amici D'Italia! 3! Textbook + Multi-platform eBook	EMC Publishing	Alex Vargas	11,12	H
	Amici D'Italia! 4! Textbook + Multi-platform eBook	EMC Publishing	Alex Vargas	11,12	H
	<b>FRENCH TEXTS</b>				
	T'es Branché 1 Texttbook + Multi-platform eBook	EMC Publishing ©2014	Toni Theisen	9,10	H,CP
	T'es Branché 2 Texttbook + Multi-platform eBook	EMC Publishing ©2014	Toni Theisen	9, 10	H,CP

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	T'es Branché 3 Texttbook + Multi-platform eBook	EMC Publishing ©2014	Toni Theisen Jacques Pécheur	10,11	H,CP
	T'es Branché 4 Texttbook + Multi-platform eBook	EMC Publishing ©2014	Martine Corsain, Elaine Grandel, Nathalie Gaillot Diana Moen Adrien Payet	11,12	H,CP
	Troisieme Livre	Amsco	Eli Blume	11,12	H
	<b>CHINESE TEXTS</b>				
	Zhēn Báng! 1 Texttbook + Multi-platform eBook	EMC Publishing ©2011	Margaret Wong Tiffany Fang	9,10,11	H,CP
	Zhēn Báng! 2 2 <sup>nd</sup> ed. Texttbook + Multi-platform eBook	EMC Publishing ©2017	Tiffany Fang	10,11,12	H,CP
	Zhēn Báng! 3 2 <sup>nd</sup> ed. Texttbook + Multi-platform eBook	EMC Publishing ©2017	Tiffany Fang	11,12	H
<b>Mathematics</b>	en Vision Algebra 1 Common Core	Pearson 2018	Kennedy, Milou, et al	9	H,CP
	en VisionAlgebra II Common Core	Pearson 2018	Kennedy, Milou, et al	10,11	H,CP
	en Vision Geometry Common Core	Pearson 2018	Kennedy, Milou, et al	9,10	H,CP
	Precalculus:Graphical, Numerical, Algebraic	Addison Wesley 2011	Demana, Waits, et al	11, 12	H
	The Practice of Statistics	W.H. Freeman 2000	Yates, Moore, McCabe	11,12	AP,CP
	Calculus Brief Edition	John Wiley&Sons 2002	Howard Anton	12	AP,H
	Ad. Mathematics - Precalculus	McDougal Littell 2000	Richard G. Brown	12	CP

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<b>Science</b>	Physics a First Course	CPO Science 2014	HSU	9	H,CP
	Biology	Prentice Hall 2010	Miller, Levine	9,10	H,CP
	Campbell: Biology in Focus	Pearson Education 2014	Lisa A. Vrry, et al	11,12	AP
	Chemistry	Prentice Hall 2017	Wilbraham et al	10,11,12	H,CP
	Chemistry- The Central Science	Prentice Hall 2015 13 <sup>th</sup> Edition	Brown et al	11,12	AP
	Essentials of Oceanography	Pearson 2017 12 <sup>th</sup> Edition	Trujillo, Thurman	12	CP
	Science-A Study of Interrelationships	McGraw Hill 2019	Enger, Smith	11,12	H,CP
	College Physics: A Strategic Approach	Pearson 2019	Knight, Jone & Field	11,12	H
	Physics for Scientists and Engineers	Pearson 2017	Knight	12	AP
	Physics Principles and Problems	McGraw Hill 2017	Serway and Faugn	12	CP
	Astronomy Today 9 <sup>th</sup> Ed	Pearson 2018	Chaison	12	CP
	Essentials of Human Anatomy & Physiology	Prentice Hall 2010	Marieb	11,12	CP
	Human Anatomy and Physiology	Prentice Hall 2016	Marieb and Hoehn	11,12	H

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<b>Business/Technology</b>	Principles of Business	South-Western Cengage 2012	Dlabay, Burrow, Kleindl	11,12	CP
	Marketing Essentials	Glencoe McGraw Hill 2009	Farese, Kimbrell, Woloszyk	11,12	CP
	Business & Personal Finance	Glencoe McGraw Hill 2012	Kapoor, Dlabay, Hughes	11,12	CP
	International Business	South-Western Cengage Learning 2008	Dlabay, Scott	11,12	CP
	Sports and Entertainment Marketing	South-Western Cengage Learning 2008	Kaser, Oelkers	11,12	CP
	Economics: Principles and Practices	Glencoe McGraw Hill 2008	Gary E Clayton	11,12	H
	Java Programming	Course Technology, Cengage Learning 2011	Joyce Farrell	11,12	H
	Core Economics	Worth Publishers 2008	Gerald Stone	11,12	AP