

# ST. JOSEPH HIGH SCHOOL

## PROGRAM OF STUDIES



2023-2024  
[sjcadets.org](http://sjcadets.org)



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## MISSION STATEMENT

### VISION

St. Joseph High School strives to be the premier college preparatory school in Southern Connecticut. The school provides a learning environment that embraces the Gospel values of the Roman Catholic faith and promotes a commitment to family and community. The school prepares our young women and young men to realize their potential, helps them excel in higher education and provides a foundation to guide them throughout their lives.

### VALUES

To support our vision, St. Joseph High School will provide an environment where the faculty, Administration, support organizations, and students, by example and program, actively promote:

- Roman Catholic teaching and values (faith, morals, ethics, and responsibility)
- Family values
- Community responsibility
- Respect and diversity
- Developing educated and creative thinkers who exhibit superior intellectual and communication skills
- Instilling passion for learning and teaching in a safe and secure environment
- Providing a strong, holistic foundation to enable all students to enter and succeed in competitive higher learning institutions
- Providing a strong program for social and physical development in an atmosphere of healthy competition



# Academic Directory

Mrs. Nancy DiBuono	Principal	x 301	ndibuono@sjcadets.org
Mr. Brian Gavin	Assistant Principal for Curriculum and Instruction	x 301	bgavin@sjcadets.org
Ms. Stacey Nasser	Registrar	x 302	snasser@sjcadets.org

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## College-Credit Course Coordinators

Ms. Stacey Nasser	Sacred Heart University	x 302	snasser@sjcadets.org
	<ul style="list-style-type: none"> <li>World Religions</li> <li>Faith &amp; Reason</li> </ul>		
Ms. Cristin Clark	University of Connecticut/ ECE	x 318	cclark@sjcadets.org
	<ul style="list-style-type: none"> <li>AP Statistics (4 credits)</li> <li>US History (Honors)</li> <li>International Relations</li> <li>AP Calculus BC (8 credits)</li> </ul>		
Mrs. Colleen Piatak	University of Iowa	x 223	cpiatk@sjcadets.org
	<ul style="list-style-type: none"> <li>Exploring Entrepreneurship</li> </ul>		



# Academic Credit Requirements

Each student must meet the base requirements for graduation which include:

- English: 4.0 credits, 1 credit per year
- Mathematics: 4.0 credits, 1 credit per year
- Theology: 4.0 credits, 1 credit per year
- Social Studies: 3.5 credits (including Civics)
- Science: 3.0 credits
- World Language: 2.0 credits of same language
  - College recommending: 3.0 credits
- General Electives: 3.5
- Grade 9 & 10 Required Electives: 2.0
  - Grade 9 electives: Choir or Band or Technology 680 and Health & Wellness
  - Grade 10 electives: Choir or Band; or Art or Theater and Technology & Innovation, Business, or Health & Wellness

## **Total Credits for Graduation: 26**

Core Curriculum may be required in each discipline. These credit requirements meet the recommended minimum credit requirements for students applying to most liberal arts college programs. Other academic programs, for example engineering or nursing, may have additional credit requirements. Before selecting courses, students should check college admission requirements for various programs and factor this into their consultation with their College & School Counselor.

### **Transfer Students**

Transfer students are placed accordingly as determined by the St. Joseph High School curriculum and requirements for graduation. In some cases, transfer students may be required to take classes with a different grade level. Transfer student credit requirements will be determined on a case-by-case basis during the admission process. To earn their diploma from SJHS, transfer students must meet the following requirements:

- 1.0 credit in British Literature
- 1.0 credit in U.S. History
- 0.5 credit in Civics (or 1.0 credit in AP US Government & Politics)
- 1.0 credit or equivalent in Algebra 2
- 3.0 credits in Science, including 1.0 in biological science (Biology or Anatomy) and 1.0 in a physical science (Chemistry or Physics)
- 2.0 credits in the same World Language

### **Minimum Credit Enrollment**

Students must maintain a minimum credit enrollment per academic year to ensure successful completion of requirements. Students in Grade 9 and 10 must maintain 7.0 credits. Students in Grades 11 and 12 must maintain 6.0 credits. Any variation to this credit requirement must be approved by the Assistant Principal for Curriculum and Instruction.

### **Overage Credit Enrollment**

Juniors and seniors may elect to take a credit overage of 0.50 – 1.0 credit in place of their study hall. The Registrar will announce which classes are eligible for overage each year. Students must demonstrate high academic achievement in conjunction with their parent/guardian permission and counselor recommendation for consideration. All overages are approved by the Assistant Principal for Curriculum and Instruction.

**Please note:** taking an overage of credits, though attractive to college admissions, does not allow for early graduation from St. Joseph High School.



# Academic Levels

St. Joseph High School offers a selection of challenging academic levels to meet the needs and goals of all students. Academic placement is determined by the Assistant Principal of Curriculum and Instruction in conjunction with Department Chairs, and test scores/middle school grades. Placement takes into consideration the demonstrated academic ability that meets all course prerequisites. Placement is individualized to highlight student interest as well as academic achievement.

## **Advanced Placement (AP):**

AP courses are college-level courses taught according to the College Board Advanced Placement program curriculum. AP courses require an exceptional quality of work and requires the approval of the Department Chair and/or College Counselor. All students enrolled in an AP course may elect to take the AP exam in May.

## **College Level (CL):**

CL courses are college-level courses which give students the opportunity to earn college credits. CL courses are offered through UCONN/ECE, Sacred Heart University, and the University of Iowa. CL courses require an exceptional quality of work and requires the approval of the Department Chair and/or College Counselor.

## **Honors (H):**

Honors placement requires superior quality work, successful completion of a challenging workload and academic achievement. Placement requires the approval of the Department Chair and/or College Counselor.

## **College Prep/College Prep 2 (CP/CP2):**

CP placement (the majority of students) requires quality work, successful completion of assigned work and academic achievement.

## **Academic Level Requirements**

Students in an Advanced Placement-level course of study are expected to maintain a high level of academic achievement consistent with the rigor of a college-level course. Students must maintain an average of 80 to remain in an advanced placement course of study.

Students who are placed in an honors-level course are expected to maintain a high level of academic achievement consistent with the rigor of an honors placement. Students must maintain an average of 80 to remain in an honors course of study.

Students who are placed in college-prep courses and earn an average of 90 or higher and the approval of the department chair may elect to advance to an honors course of study.

All placements are at the discretion of the Assistant Principal of Curriculum and Instruction.

## COURSE WEIGHTING

Student grades are reported as raw scores on all transcripts and report cards. Students who are enrolled in Advanced Placement, College-level, or honors courses receive a multiplier towards their adjusted (weighted) grade point average. Students must earn a 65 or higher to receive the multiplier. The Registrar's Office updates each student's grade point average annually to reflect the multiplier.

The multipliers are as follows:

- Advanced Placement/College-Level 1.10
- Honors/Honors 1 1.07
- College Prep 1.00

## HONOR ROLL

The following honor roll designations are awarded at the end of each academic quarter.

- **President's Honor Roll:** a weighted quarter average of 95 with no grade less than a 90
- **Principal's Honor Roll:** a weighted quarter average of 88 with no grade less than 80

## SENIOR INTERNSHIP PROGRAM

The Senior Internship Program is an opportunity for students to enhance their learning by exploring their career interests outside of the traditional classroom. The goal of the program is for students to gain experience in their desired fields and obtain a favorable referral or recommendation from their site that will assist in procuring future internships.

### *Program Details:*

- Students will participate in a three week, unpaid internship taking place during the last few weeks of the academic year. Dates are announced at the start of each academic year for student planning purposes.
- Internships will consist of 20-25 hours per week according to the schedule determined by the site supervisor and the student. Schedules must be approved by faculty mentors.
- Students will be matched with available internships in their skill and interest areas.
  - Sites may request to interview students during the selection process.
  - Students may also self-design their own internship and apply for approval.
- Students will work with a faculty mentor in addition to their site supervisor during the internship to track progress. Students must submit a one page reflection paper and an activity log to their assigned faculty mentor each week.
- Students will receive 0.25 credit on their final transcript upon completion of the internship.
- Students will complete a final reflection project to present during the Internship Fair at the end of May.



# Curriculum Sequence

This is the typical curriculum sequence for a four-year program of study. As course placement is highly individualized, not all students will adhere this sequence and may see a variation in course planning as a result.

<u>Subject</u>	<u>Grade 09</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
<b>THEOLOGY</b> 4.0 required credits	Old Testament / Introduction to Catholicism	New Testament / Christology	Catholic Social Teaching  Morality	Bioethics Faith & Reason World Religions Prayer/Spirituality Vocations Peer Ministry
<b>ENGLISH</b> 4.0 required credits (5.0 if CP2)	Freshmen English  Academic Writing & Language Skills (CP2)	Sophomore English	Junior English Gothic Literature Dystopian Literature Shakespeare/Poetry AP English Language & Composition	Sports Lit/Science Fiction Irish Lit/Film & Lit Controversial Literature Literature & War/Short Story Creative Writing /Graphic Novel Women in Lit/Multicultural Lit AP English Literature & Comp. Professional Writing
	Broadcast Journalism (7:00am class)			
<b>MATHEMATICS</b> 4.0 required credits	Algebra I  Geometry  Algebra 2	Geometry  Algebra 2  Precalculus	Algebra 2  Precalculus  Calculus AP Calculus AB AP Statistics	Precalculus  Calculus AP Calculus AB AP Calculus BC AP Statistics Statistics
<b>SOCIAL STUDIES</b> 3.5 required credits	World History	Modern World History  AP European History  US History	US History  AP US History	Civics  AP US Government & Politics
			Psychology, AP Economics, AP Psychology, Economics, Contemporary Political Philosophy, International Relations	
<b>SCIENCE</b> 3.0 required credits	Biology	Chemistry  Biology  Modern Chemistry  AP Biology		Environmental Science
			Chemistry, Modern Chemistry, Physics, Conceptual Physics, Microbiology, Genetics, Sports Medicine, Human & Comparative Anatomy , Hu- man Anatomy, AP Environmental Science, AP Biology, AP Chemistry, AP Physics C	



# Curriculum Sequence

Subject	Grade 09	Grade 10	Grade 11	Grade 12
<b>WORLD LANGUAGE</b> 2.0 required credits (3.0 college recommending)	Mandarin 1, 2, 3, 4 French 1, 2 Spanish 1, 2 Italian 1	Mandarin 1, 2, 3, 4 French 1, 2, 3, 4 Spanish 1, 2, 3 Italian 1, 2, 3	Mandarin 1, 2, 3, 4 French 1, 2, 3, 4 Spanish 1, 2, 3, 4, AP Italian 1, 2, 3, 4	Mandarin 1, 2, 3, 4 French 1, 2, 3, 4, AP Spanish 1, 2, 3, 4, AP Italian 1, 2, 3, 4
<b>BUSINESS*</b>			<b>Electives:</b> Accounting, Financial Literacy, Entrepreneurship, Marketing, Graphic Design, International Business	
		<b>Electives:</b> Graphic Design, Principles of Business, Sports Management		
<b>TECHNOLOGY &amp; INNOVATION</b>	IDEA: Innovation, Design, and Engineering Applications	Innovative Project Design		
			Robotics & Automated Systems, Innovative Project Design, Design Project & Technical Management, Software Development & Integration, Aviation & Flight Science, Technology & Innovation Capstone Project, Drone Tech & Operation, Cybersecurity & IoT	
<b>FINE ARTS*</b>	Instrumental Music Concert Choir Percussion Ensemble	Instrumental Music Advanced Instrumental Concert Choir Advanced Chamber Choir Percussion Ensemble Advanced Percussion Studio Art Sculpture & 3D Design Fundamentals of Art Public Speaking & Theatre	<b>Electives:</b> Instrumental Music, Concert Choir, Advanced Instrumental Ensemble, Percussion Ensemble, Advanced Percussion Ensemble, Advanced Chamber Choir, Studio Art, Sculpture & 3D Design, Art of Acting, AP Art & Design, Public Speaking & Theatre	
<b>HEALTH/ WELLNESS*</b>	Personal Health and Fitness	Fit for Life		

\*Required credits for Business, Fine Arts, Technology & Innovation, and Health & Wellness vary based on student selection.



# Business Department

The business and entrepreneurship curriculum focuses on developing real-world business acumen, entrepreneurial readiness and innovative skills in students. Students learn about marketing, finance, management and entrepreneurship through introductory business courses, attending the multiple business and entrepreneurial events held throughout the year, and by participating in the St. Joseph's DECA chapter. Students also have the opportunity to complete traditional introductory and advanced coursework in economics.

## **Accounting (CP)**

BUS-ACC 410 (Grades 11, 12)

0.50 Credit

This course focuses on the basic principles of accounting including the accounting cycle as it applies to a sole proprietorship, by teaching the basic principles of accounting and the financial operations of a business. Emphasis is placed on the accounting cycle including the recording process, income determination, analyzing and communicating financial information.

*\* Note: Senior students may choose to take Financial Literacy & Accounting in order to fulfill their required senior-year math credit.*

## **Financial Literacy (CP)**

BUS-FIN LIT 410 (Grades 11, 12)

0.50 Credit

This course emphasizes the knowledge and skills required to handle personal finances topics include budget analysis, banking, insurance, credit, taxes, real estate and investments. Students work with the online simulation that incorporates real-world money management skills including paying bills, managing expenses, saving money, and investing in retirement. Students learn the fundamentals of managing financial resources to achieve financial wellbeing.

*\* Note: Senior students may choose to take Financial Literacy & Accounting in order to fulfill their required senior-year math credit.*

## **Introduction to Marketing (CP)**

BUS-MKTG 310 (Grades 11, 12)

0.50 Credit

This entry-level business course studies the scope and significance of marketing in the American business world with an emphasis on marketing consumer goods. Topics covered include the development of the marketing mix, marketing-information management, product/service management, and selling.

## **Introduction to Graphic Design (CP)\***

BUS-GRPH DSGN 310 (Grades 10, 11, 12)

0.50 Credit

This course is for students who want to create art on the computer using Adobe CC Suite software, and Canva. While exploring visual aesthetics, such as the elements and principles of design, students will practice retouching, digital collaging, and design through individual projects.

*\* This course satisfies both a Business and Fine Arts credit.*

# Business (cont'd)

## **Exploring Entrepreneurship (CL) - Fall Semester Only**

BUS-ENTREPR 500 (Grade 12)

0.50 Credit

Develop the “entrepreneurial mindset” by encouraging creativity, innovation, critical thinking, and problem-solving. Through a research-driven approach, as well as strategic collaborations, students explore an entrepreneurial culture which enhances economic development. This course will include idea generation, market research, marketing, feasibility and risk assessment, customer service and financial projections. Students can register to earn 3 college credits from the University of Iowa. *Prerequisites: A cumulative grade-point-average of 85 and approval of department chair*

## **International Business (CP)**

BUS - INTL BUS 310 (Grade 10, 11, 12)

0.50 Credit

This course exposes students to the unique challenges facing firms doing business internationally and to the potential opportunities and markets that are lost to firms that choose not to do business in the global marketplace. International Business broadens student understanding of how businesses operate, grow and thrive in their everchanging world.

## **Principles of Business (CP)**

BUS-BUS PRINC 310 (Grade 10, 11, 12)

0.50 Credit

A broad-based introductory course designed to give the student exploratory experiences as they relate to the world of business. Students will explore all aspects of business through problem solving, social responsibility, critical thinking and the development of projects and activities.

## **Introduction to Sports Management (CP)**

BUS-SPORT MNGMT 310 (Grade 10, 11, 12)

0.50 Credit

This course explores the sport industry environment and introduces classic business and management concepts as they apply to this specific setting. Students are exposed to planning, organizing, leading, and controlling strategies and skills with special emphasis on how they are applied in an organization operating within the demanding context of modern sports industry.



# English Department

The St. Joseph High School English Department presents students with a challenging curriculum that focuses on reading, writing, and critical thinking skills. The goals of the English curriculum are to provide a four-year literature-based program to assist in the development of excellence in writing and speaking skills, learning to critically analyze challenging literature and original source texts, as well as building vocabulary and grammar skills. We employ 21st century technology to promote media literacy and to develop students who are prepared to meet their future academic and career goals in an ever-changing technological world.

## **Freshmen English (CP, CP2, H)**

ENG - WL & C 101, 110, 150 (Grade 9)

1.0 Credit

This literature, project, and activity-based course introduces students to the rich complexity of World Literature and varied literary genres such as poetry, novels, drama, the epic and the short story, focusing on the basics in reading, oral, and written communication. Novels include, but are not limited to canonical texts, such as *Animal Farm*, and more contemporary texts, such as *The Boy in the Striped Pajamas* and *The Curious Incident of the Dog in the Night Time*. Students study grammar and vocabulary and apply this knowledge in developing skills in process analysis, compare and contrast, and descriptive essays, as well as oral presentations.

## **Academic Writing and Language Skills (CP2)**

ENG - AW 101 (Grade 9)

1.0 Credit

This course offers fundamentals in grammar and writing that complements and is offered in conjunction with Freshmen English 106 CP2. Designed for students who need strengthening in grammar, vocabulary and study skills, the class also focuses on in-class reading assignments and writing prompts. Students enrolled in this course do not take a world language in their freshmen year.

## **Sophomore English (CP, CP2, H)**

ENG - AMER LIT 201, 210, 250 (Grade 10)

1.0 Credit

Sophomore English primarily explores, but is not limited to the unique heritage of American Literature. This course takes the student on a journey through the literary genres and stylistic movements from the 1600's to present day that make up the rich and varied American literary canon, from *The Narrative of the Life of Frederick Douglass* to modern texts, including *The Secret Life of Bees*. Through an examination of major writers, students continue to develop reading comprehension, vocabulary, grammar, literary interpretation and critical thinking skills. Students continue to develop their writing skills with narrative essays, precis, definition, and literary analysis essays, as well as oral presentations.

# English (cont'd)

## **Junior English (CP, CP2, H)**

ENG - BRIT LIT 301 (Grade 11)

1.0 Credit

This course offers an introduction to the major literary movements and writers of Great Britain beginning in the Anglo-Saxon Period followed by Medieval, Renaissance, Elizabethan, Restoration and Modern 20th Century eras. Through an examination of major British writers, students continue to develop reading comprehension, vocabulary, grammar, literary interpretation and critical thinking skills. Students are expected to apply this knowledge in analytical, expository, creative, division, classification, synthesis, and research writing as well as in oral presentations.

## **Junior English – Gothic Literature (CP, H)**

ENG - BRIT/GOTH LIT 311, 351 (Grade 11)

1.0 Credit

This course will include the reading, discussion, and research of Gothic Literature; primarily that of 19th-Century American and Romantic and Victorian era British authors. It will include conventions of the genre, and examinations of the social and historical issues writers used dark and mysterious stories to expose and critique. Authors will include Washington Irving, Edgar Allan Poe, Nathaniel Hawthorne, Edith Wharton, Robert Browning, Samuel Taylor Coleridge, and Mary Shelley. Analyses will focus on issues of race, gender, class, and religion, and will examine themes such as imagination, marginalization, and social justice.

## **Junior English – Dystopian Literature (CP, H)**

ENG - BRIT/DYST LIT 312, 352 (Grade 11)

1.0 Credit

This course will include the reading, discussion, and research of Dystopian Literature, including the work of George Orwell, Aldous Huxley, Margaret Atwood and others. Students will explore the social and political choices individuals and societies make that create nightmarish scenarios and examine the ways fictional and real societies dehumanize people. It will include small and large group discussion, analysis and synthesis, formal literary writing, and oral presentations.

## **Junior English – Shakespeare/Poetry (CP, H)**

ENG - BRIT/SHAKE LIT 313, 353 (Grade 11)

1.0 Credit

This course will include the reading, discussion, and research, primarily of the work of William Shakespeare and various other poets. Students will become familiar with several major plays and investigate their historical significance, as well as their continued relevance and thematic universality. The poets will include, but will not be limited to Shakespeare. Students will explore the poem as a form of art, and become familiar with various forms of poetry from different periods. Students will learn various methods of reading poetry and the analysis of poets and poems.

# English (cont'd)

## **AP English Language and Composition**

ENG - ENG L&C 380 (Grade 11)

1.0 credit

AP English Language and Composition mirrors a college-level rhetoric and writing curriculum. The focus is on evidence-based analytic and argumentative essays. Students will be required to evaluate, synthesize, and cite research to support their arguments. Students also read and analyze rhetorical elements in non-fiction texts from a cross section of time periods. Students will have the option to take the AP exam which will be administered in May. Pre-course summer assignments are required.

## **AP English Literature and Composition**

ENG - ENG LIT 480 (Grade 12)

1.0 Credit

AP English Literature and Composition mirrors an introductory college-level literary analysis course. College Board has redesigned the course to focus on close reading and critical analysis of works of literary merit from the 17th century to modern day, including units on Short Fiction, Poetry, and Long Fiction and Drama. Students learn to dissect a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Students will have the option to take the AP exam which will be administered in May. *Pre-course summer assignments are required.*

## **Senior English: Creative Writing / Graphic Novel (CP)**

ENG - CW/GN 410 (Grade 12)

1.0 Credit

In Graphic Novel, students will study graphic narrative: the combination of images and text to convey meaning. This storytelling medium will be explored for its cultural significance; the influence of digital technology on the design, distribution and consumption of graphic novels and the thematic links among the primary texts will speak to issues of cultural memory, nostalgia, and identity. The second semester Creative Writing course teaches students the elements of creative writing, including short story, poetry, expository essay, and character study through weekly writing assignments, peer editing, and story conferencing.

## **Senior English: Women in Literature/Multicultural Literature (H)**

ENG - WMN/MULTICULT LIT 450 (Grade 12)

1.0 Credit

Historically, women have been marginalized in terms of human and political rights. This course begins with a consideration of the historical events for this marginalization and the literature and art of women in response to it. This course introduces students to female authors of fiction, non-fiction, poetry and critical theory from around the world. The second half of this course provides an introduction to the academic study of the multicultural genre through poetry, fiction, non-fiction, plays and music to gain an understanding of the historical and social development of writers of different ethnic, cultural, and racial backgrounds.

# English (cont'd)

## **Senior English: Irish Literature/Film and Literature (H)**

ENG - IRISH/FILM LIT 450 (Grade 12)

1.0 Credit

This course offers a broad introduction to the study of Irish literature, history and culture. Students will gain a grounding in: Irish storytelling since the early Christian period, including through music and song, the history of the conquest of Ireland and Irish independence movements, the role of the Irish language in culture, the famine and its social and political aftermath, the history of religious difference, the relationship between Britain and Ireland, the work of major literary figures such as Swift, Joyce, Yeats, Beckett and Heaney, contemporary Ireland and the Irish economy. Film and Literature is a comparative study of films and the literary sources upon which they are based. Special attention is given to the practical and theoretical problems of adapting literature to film and the basic differences between the two. The course explores how character development, plot, narrative, symbols, and language are translated from literary texts to film, and considers the limitations of film adaptation. Students read, analyze, and respond critically to literature and films in class discussions, examinations, and essays. Standards for English/Language Arts, is a study of how literature is adapted for film or media.

## **Senior English: Professional Writing**

ENG - PROF WRIT 410 (Grade 12)

0.5 Credit

This course will prepare students to conduct themselves in a professional setting, including college, internships, and job interviews. Students will research, discuss and practice professional writing, speaking, presenting, and professional decorum. Areas of concentration include professional writing skills, including all forms of professional written material, both print and electronic. Students will practice their speaking, presenting and interview skills through research, study and practical application. Writing assignments will include how to write a resume, cover letter, memo, email, thank you letter, persuasive letter, mission statement and business proposal.

## **Senior English: Controversial Literature**

ENG - CONTR LIT 410 (Grade 12)

0.5 Credit

The objective of this course is to allow students to investigate the issue of censorship in schools from multiple perspectives. In the process, students will investigate the reasons why various works of literature have been banned and why there are hundreds of attempts every year to also ban lessons or educational materials from classrooms, school libraries, and districts across the United States. Students will learn to argue in defense of and against the varied works to be studied within the course. These investigations will require historical, social, and psychological understanding on the part of the students, so that they may understand the psyche of literary censorship.

# English (cont'd)

## **Senior English: Literature and War/Short Story (CP)**

ENG WAR & SHORT STRY LIT 410 (Grade 12)

1.0 Credit

The first half of this course studies the development of the short story, including history, plot, character, setting, point-of-view, narration, tone, style and theme. The class includes literary analysis as well as writing an original short story and oral presentations. The second half of this course examines the intricate and powerful effect war has on citizens. Students analyze both fiction and nonfiction prose and poetry that provides insight into the psyche and emotions of war-torn people. The course explores psychological, emotional, and historical effects of tragedy and explores subjects such as beauty amid violence, loss, fear and horror, patriotism, dehumanization, and identity through a compilation of short stories, poems, and novels.

## **Senior English: Sports Literature and Writing/Science Fiction Literature (CP)**

ENG - SPRT & SCI FI LIT 410 (Grade 12)

1.0 Credit

The first half of the courses examines the unique relationship between sports and society through literature by contemporary authors, columnists and other media. The course affords students the opportunity to examine the historical influence sports has on society and the impact it plays on developing character through universal themes of struggle, conflict, victory and defeat. The second half of this course includes a selection of genres within Science Fiction literature including apocalyptic and post-apocalyptic, dying earth, military, time travel, space colonization and social science fiction. Students explore differences between science fiction and other fantastical works, identify and analyze techniques used to convey imaginary places, beings and ideas, and discuss/compare the evolution of science fiction from its original models to more modern works.

### Elective Course Offerings

#### **Broadcast Journalism\***

ENG - BROAD 110 (Grade 9, 10, 11, 12)

1.0 Credit

Broadcast Journalism is a unique course offering at SJHS that is open to all grades. Students learn all aspects of broadcasting through hands-on operation of a real television studio. Subject areas include research, writing, producing, recording, and airing news, features, public service, and entertainment. Students become proficient in performance and the operation of all studio equipment in the planning, production, and delivery of a daily program for the entire SJ community. *This course meets before school at 7:00 a.m.*

*\* This course satisfies both an English and Fine Arts credit.*



# Fine Arts Department

St. Joseph High School believes that every student is entitled to a well-rounded education that includes exposure to the arts, including courses in art, music, and theater. A foundation in the arts develops cognitive, analytical, problem solving and task completion skills. The arts allow students to develop self-expression through visual, aural and performance mediums. Upon completion of the program, students should possess a basic understanding and appreciation of the arts in their world and how the arts relate to historical, societal and cultural awareness.

## VISUAL AND STUDIO ART

### **Fundamentals of Art (CP)**

FI-ART FUND 210 (Grade 10)

0.50 Credit

This course provides a general overview of the visual arts with an emphasis on design, historical significance and artistic intent. Students work with two and three-dimensional mediums creating realistic and abstract works including: pencil, pastel, marker, and paint. The hands on work combines with text, multimedia presentations, and class discussions to help students gain an understanding of the societal importance of art.

### **Studio Art (CP)**

FI-SA 310 (Grades 10, 11, 12)

1.0 Credit

This course provides the opportunity for students who have demonstrated talent and interest in art to expand on the drawing and painting concepts introduced in Fundamentals of Art. Emphasis will be placed on more advanced experiences with design principles, drawing techniques and painting techniques. Coursework is designed to build mastery in technique, composition, design, and creative problem solving. Students will also experiment with various computer art programs such as procreate and sketchbook. Outside work will be required and an active journal/sketchbook is a critical course requirement. *Prerequisite: Portfolio review or completed Art Fundamentals.*

### **AP Art & Design**

FI-ART 500 (Grades 11, 12)

1.0 Credit

Students work at an advanced level using techniques used to create a variety of 2-D artworks through developing skills in drawing, painting, printmaking, and collage. Students manipulate the structural elements of art to promote creative risk-taking in 2-D artwork. Student artists use art criticism to evaluate, explain, and measure artistic growth. *Prerequisite: Portfolio review or completed Art Fundamentals.*

### **Sculpture & 3D Design (CP)**

FI-SCULP 210 (Grades 10, 11, 12)

0.50 Credit

Students begin an exploration of the structural elements of art used when creating 3-D forms. Additive and subtractive processes are used to manipulate and construct sculptural or ceramic forms in media that may include but are not limited to: clay, wood, wire, plaster, found objects, and paper maché.

# Fine Arts (cont'd)

## MUSIC

### **Instrumental Music (CP)**

FI-INS MUS 110 (Grades 9, 10, 11, 12)

1.0 Credit

Instrumental Music class, which includes brass, string, and woodwinds provides students the opportunity to develop their musical potential with an emphasis on fulfilling musical objectives. Students engage in activities designed to give them a thorough grounding in instrumental playing and musical literacy, instrumental technique, performance practice and sight-reading. The ensemble performs at St. Joseph High School events. Instrumental Music class requires attendance at all after school rehearsals and performances. *Prerequisite: Students must have prior instrumental experience and an understanding of sheet music.*

### **Percussion Ensemble (CP)**

FI-PERCUSS 110 (Grades 9, 10, 11, 12)

1.0 Credit

Percussion Ensemble is a course for students with prior knowledge of Snare Drum, Keyboard Fundamentals, and Drum Set. This course builds upon prior knowledge of the “family” of percussion instruments and treats it as its own ensemble. Students in this course will participate throughout the year, performing in Steel Pan Band, Contemporary Percussion Ensemble, and with school bands and choirs as appropriate. Additionally, students will work through a comprehensive series of textbooks specific to percussionists. Members of the class are highly encouraged to prepare an audition to participate in the Connecticut Western Regional Band, Orchestra, or Jazz Band. *Class is capped at 10 students. A brief meeting with Mr. Miller to assess knowledge and skill is required.*

### **Advanced Percussion Ensemble (H)**

FI-ADV PERCUSS 450 (Grades 10, 11, 12)

1.0 Credit

Advanced Percussion Ensemble builds on the concepts of Percussion Ensemble while challenging students to further their musicianship skills through intensive technique building. Advanced Percussion Ensemble’s goal is to prepare students for outside auditions (Regional, All State Ensembles and College), and to develop an advanced repertoire. This ensemble performs at St. Joseph High School events. Advanced Percussion Ensemble requires attendance at all after school rehearsals and performances. *Prerequisite: Audition in spring semester; admittance based on audition scores and ensemble needs.*

### **Concert Choir (CP)**

FI-CHOIR 110 (Grades 9, 10, 11, 12)

1.0 Credit

The Concert Choir is for the student with a love of singing, no previous vocal training required. Students work on sacred and secular choral literature while studying music notation, sight singing, music vocabulary and vocal technique. In addition to ensemble rehearsal, students receive bi-weekly small group lessons for instruction designed to address individual student needs. Concert Choir requires attendance at all after school rehearsals and performances.

# Fine Arts (cont'd)

## **Advanced Instrumental Ensemble (H)**

FI-ADV INS MUS 450 (Grades 10, 11, 12)

1.0 Credit

Advanced Instrumental Ensemble builds on the concepts of Instrumental Ensemble while challenging students to further their musicianship skills through intensive technique building. Advanced Instrumental Ensemble's goal is to prepare students for outside auditions (Regional, All State Ensembles and College), and to develop an advanced repertoire. The ensemble performs at St. Joseph High School events. Advanced Instrumental Ensemble requires attendance at all after school rehearsals and performances. *Prerequisite: Audition in spring semester; admittance based on audition scores and ensemble needs.*

## **Advanced Chamber Choir (H)**

FI-ADV CHAMB 450 (Grades 10, 11, 12)

1.0 Credit

The Chamber Choir builds on the concepts of Concert Choir while challenging students to further their musicianship skills through intensive technique building. Chamber Choir's goal is to prepare students for outside auditions (Regional, All State Ensembles and College), and to develop an advanced repertoire. Advanced Chamber Choir requires attendance at all after school rehearsals and performances. *Prerequisite: Audition in spring semester; admittance based on audition scores and ensemble needs.*

## **THEATER**

### **Public Speaking & Theater (CP)**

FI – THEATER 210 (Grade 10)

0.50 Credit

Public Speaking and Theater introduces students to a basic understanding of the life skills inherent in as well as the art of theater. The course focuses on public speaking, scene studies, improvisation, set design, costume design and performance techniques, as well as exploring how theater has shaped societies since ancient times. Students will learn basic stage combat, backstage skills, as well as directing and acting.

### **The Art of Acting (H)**

FI – ACT 450 (Grades 11, 12)

0.50 Credit

This course provides an in-depth study of the various skills an actor needs in order to be successful; including an awareness and appreciation of acting both as a participant and an observer. Emphasis is placed upon ensemble and scene work, as well as improvisation. Students study texts for clues to character behavior and motivation and are assigned classical and contemporary theater works. Students perform monologues, two-person scenes, improvised 20 scenarios, as well as learning how to audition for a college or professional environment.



# Health & Wellness Department

St. Joseph High School believes in educating the whole student, spiritually, academically and physically. Health & Wellness offers physical activities that emphasize cardiovascular endurance, muscular strength, flexibility and agility and that students can participate in for a lifetime of health and wellness. Teamwork, positive attitude, good sportsmanship and interactions with classmates are emphasized.

The Health and Wellness curriculum encompasses topics such as cardio and weight training, basic human anatomy and musculature, nutrition and healthy eating habits, weight management, and program design and development. All classes will have practical applications through sporting and exercise activities including volleyball, basketball, soccer, track and field, yoga, cycling, etc. with full access to the St Joe's gymnasium, athletic fields and the new Health and Wellness Center.

## **Personal Health and Fitness (CP)**

HW - H&F 110 (Grades 9)

0.50 Credit

Students will learn about the latest trends in health, nutrition, physical activity and wellness. All areas of wellness will be discussed and how to implement these practices into everyday life. This is a physical activity course where exercise practice in the Health and Wellness Center will be performed.

## **Fit for Life( CP)**

HW - FFL 210 (Grade 10, 11, 12)

0.50 Credit

This course is designed for students who are looking to begin or continue their fitness journey. It will give students the necessary information needed for a lifetime of fitness and health for all levels. In this class, students will be utilizing the Health & Wellness Center along with the outdoor track. There will be an emphasis on cardiovascular health through different forms of activities, such as, walking, stretching, weightlifting, and miscellaneous activities.



# Mathematics Department

The philosophy of the Mathematics Department is to enhance and expand on mathematical knowledge that students have gained throughout their education. We strive to offer a learning environment that fosters analytical thinking, logical reasoning, and problem-solving skills. The department and its faculty strive to inspire in each student an appreciation of mathematics and its practical real-world applications. The Students enrolled in all Mathematics classes need access to a graphing calculator daily. There is always movement between levels in mathematics a final average of a 90 in a CP course is needed to advance to a honors level course.

## **Algebra 1 (H, CP, CP2)**

MATH - ALG1 101, 110, 150 (Grade 9)

1.0 Credit

This course is a foundation course for math. Topics covered include solving equations and inequalities, functions, exponents, polynomials, quadratics, and systems of equations. The theory and use of functions will be introduced. A correlation between arithmetic and algebraic principles and the vocabulary of algebra is stressed. The Honors Algebra 1 has more challenging problems in each topic than the other levels.

## **Geometry (H, CP, CP2)**

MATH - GEOM 201, 210, 250 (Grades 9, 10)

1.0 Credit

Two and three-dimensional geometric figures are explored through the use of definitions, postulates and theorems. Inductive and deductive reasoning are developed in the formulation of proofs and through group activities. Euclidean, coordinate and spatial Geometry is covered. Algebra is integrated into the course throughout the year. The use of the Pythagorean Theorem in Mathematics is explained in detail. Simple right triangle trigonometry will also be covered. *Prerequisites: Algebra 1*

## **Algebra 2 (H, CP, CP2)**

MATH - ALG2 301, 310, 350 (Grades 9, 10, 11)

1.0 Credit

An extension of Algebra 1, students are introduced to the transcendental functions (exponential, trigonometric and logarithmic). Matrices, algebraic fractions, functions, introduction to sequences, series and conic functions and their graphs will complete the year *Prerequisites: Geometry*

## **Pre-Calculus (H, CP)**

MATH - PRECALC 310, 350 (Grades 10, 11, 12)

1.0 Credit

This course covers circular, algebraic, exponential, and logarithmic functions as well as Trigonometry and its applications, analytic Geometry, sequences and series and vectors. *Prerequisites: Algebra 2*

# Mathematics (cont'd)

## **Calculus (H)**

MATH - CALC 450 (Grades 11, 12)

1.0 Credit

Calculus topics begin with study of limits. The derivative is introduced through the study of the tangent line problem and the limit definition of the derivative is developed. Students' become proficient at both explicit and implicit derivatives of polynomial, rational, trigonometric, exponential and logarithmic functions. Derivative applications are studied through motion, curve fitting, extrema, and related rates. The course continues with anti-differentiation and its applications. *Prerequisites: Precalculus*

## **Statistics (H, CP)**

MATH - STAT 410, 450 (Grade 12)

1.0 Credit

Statistics is the science of collecting and analyzing data. This course covers descriptive statistics, axiomatic probability, probability distributions (including the normal binomial), inferential statistics (confidence intervals and hypothesis tests), and curve fitting. *Prerequisites: Algebra 2*

## **AP Statistics / UCONN ECE Statistics**

MATH - AP STAT 500 (Grade 12; Grade 11 with math chair approval)

1.0 Credit

AP Statistics is a class for any students who wants to learn how to make sense of the world around him/her through the use of authentic data. A standard approach to statistical analysis primarily for students of business and economics; elementary probability, sampling distributions, normal theory estimation and hypothesis testing, regression and correlation, exploratory data analysis. Learning to do statistical analysis on a personal computer is an integral part of the course. This is a college level course and follows the standard syllabus prescribed by the College Board. Students will have the option to take the AP exam which will be administered in May. This course is also a dual-enrollment course with the UCONN. *Prerequisites: Algebra 2*

## **AP Calculus, AB**

MATH - AP CALC AB 500 (Grades 11, 12)

1.0 Credit

The first semester emphasizes a thorough study of derivatives. Students become proficient both explicit and implicit derivatives of polynomial, rational trigonometric, logarithmic and exponential functions. Derivative applications are studied through motion, curve fitting, extrema and related rates. The second semester stresses the study of the integral. Applications are stressed through the investigation of volumes, length of curves, volumes of solids of revolution and surface area. This is a college level course and follows the standard syllabus prescribed by the College Board. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Precalculus*

## **AP Calculus, BC / UCONN ECE MA 1131Q MA1132Q**

MATH - AP CALC BC 500 (Grades 12)

1.0 Credit

This covers all of the topics from Calculus AB as well as Taylor and Maclaurin series, advanced methods of integration, polar coordinates and equations as well as parametric equations. This is a college level course and follows the standard syllabus prescribed by the College Board. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Calculus AB or Calculus*. This course is also a dual-enrollment with UCONN.



# Science Department

The Science Department at St. Joseph High School strives to prepare students for life in a technologically advancing society. Students are taught the importance of science in everyday life as well as an understanding and appreciation of the laws of nature and the universe. Science is a process of inquiry rather than a collection of facts. Through laboratory work, students are taught how to ask the right questions about nature and learn how the sciences interconnect. The department goal is to prepare students to understand the mysteries of the planet, the ecosystems, and the various species populating Earth, and themselves as human beings.

## **Biology (H, CP, CP2)**

SCI - BIO 101, 110, 150 (Grades 9, 10)

1.0 Credit

The study of Biology encompasses biochemistry, cellular structure and function, genetics, evolution, and ecology. Lecture is complemented by a complete program of laboratory experiments.

## **Elements of Chemistry (CP)**

SCI - CHEM 210 (Grades 10, 11, 12)

1.0 Credit

This course deals with chemistry as it relates to modern life. The organization of elements based on the Atomic Theory is studied through class lectures and laboratory work. The descriptive aspects of chemistry are emphasized.

*Prerequisites: Biology*

## **Modern Chemistry (H)**

SCI - CHEM 250 (Grades 10, 11, 12)

1.0 Credit

This course treats the science of Chemistry in a modern theoretical manner. Students study chemical theory and descriptive chemistry with an emphasis on the electronic structure and periodicity of the elements and apply them in laboratory work. *Prerequisites: Biology*

## **Conceptual Physics (CP)**

SCI - PHYS 410 (Grade 11, 12)

1.0 Credit

This course introduces students to the fundamental principles of physics and shows how physics is applied to practical solutions. The course encourages comprehension of physics and scientific communication skills without the use of complex mathematics. The basic rules of the universe: force, motion, energy, light, sound, heat and the interior of the atom are covered through discussion and activity. *Prerequisites: Chemistry*

## **Physics (H)**

SCI - PHYS 450 (Grade 11, 12)

1.0 Credit

This course, for students with strong math and science aptitude, provides a comprehensive study of motion and force, energy, sound, light, and electromagnetics. These concepts are further explored through labs, generating and enforcing a more complete understanding of the concepts and applications. *Prerequisites: Chemistry*

# Science (cont'd)

## **AP Environmental Science**

SCI - AP ENV SCI 480 (Grades 11, 12)

1.0 Credit

This course investigates how humankind can become a better steward of the Earth and its resources. The course covers biodiversity, agriculture, water and air pollution, climate change, and fossil fuels versus renewable energy sources. Laboratory experiments and fieldwork are required. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Biology and Chemistry and approval of the department chair*

## **AP Biology and Lab**

SCI - AP BIO 480, 481 (Grades 10, 11, 12)

1.0 Credit

This course emphasizes biological principles from the AP Biology curriculum, including biochemistry, cell metabolism, molecular genetics and genetic engineering, evolution, population biology, plant and animal physiology, and ecology. Extensive laboratory work is required. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Honors Biology or Honors Human Anatomy & Physiology and approval of the department chair.*

## **AP Chemistry and Lab**

SCI - AP CHEM 480, 481 (Grades 11, 12)

1.0 Credit

This course expands on topics from Science 453, Modern Chemistry, and covers nuclear chemistry, electrochemistry, and rates of reactions, thermodynamics and the involvement of chemistry in environmental and societal issues. Extensive laboratory work is required, involved calculating and interpreting results based on quantitative data. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Honors Chemistry and approval of the department chair.*

## **AP Physics C: Mechanics**

SCI - AP PHYS 480 (Grades 11, 12)

1.0 Credit

This course covers kinematics, Newton's laws of motion: work, energy, power; systems of particles and linear momentum, circular motion and rotation, and oscillation and gravitation. Students will have the option to take the AP exam which will be administered in May. *Prerequisites: Honors Physics, completion of, or concurrent enrollment in Calculus and approval of the department chair.*

## **Sports Medicine (CP)**

SCI - SPORT MED 310 (Grades 11, 12)

.50 Credit

This course is designed for students interested in the medical/health fields. Students learn medical terminology, prevention, treatment, rehabilitation of sports injuries, emergency procedures, and basic first-aid. Practical skills include wrapping, basic, first-aid and emergency procedures. Students have the opportunity to assist with the development and application of rehabilitation of St. Joseph High School athletes.

# Science (cont'd)

## **Human and Comparative Anatomy and Physiology (H)**

SCI - A&P 450 (Grades 11, 12)

1.0 Credit

This course, designed for students interested in medicine/health, provides detailed coverage of the structure and functions of the human body, including the injuries and diseases that affect each organ system. Emphasis is placed on the human body, but comparisons are made to other vertebrates. Major dissections are an essential part of the course. *Prerequisites: Successful completion of biology and chemistry.*

## **Human Anatomy and Physiology (CP)**

SCI - A&P 410 (Grade 11, 12)

1.0 Credit

This course is designed for students interested in medicine/health but who do not meet the prerequisite for Science 451. The course focuses on detailed coverage of the structure and functions of the human body and the injuries and diseases that affect each organ system. Major dissections are an essential part of the course. *Prerequisite: Successful completion of biology.*

## **Environmental Science (CP)**

SCI - ENV SCI 410 (Grades 12)

0.50 Credit

This course is a study of the fundamental principles of land and marine ecology. Students study various ecosystems, habitats and environmental problems. Discussion includes current topics and issues.

## **Genetics (CP, H)**

SCI - GEN 410, 450 (Grades 11, 12)

0.50 Credit

This course examines how physical traits are coded for and expressed in organisms, how traits are inherited from one generation to the next, and how changes in the genetic material, past and present, have led to biological diversity. The course focuses on DNA and how it regulates all processes of the body. *Prerequisites: Successful completion of biology and chemistry.*

## **Microbiology (H)**

SCI - MICROBIO 450 (Grades 11, 12)

0.50 Credit

Focus is on the cellular and biological aspects of various species of microorganisms. Emphasis is placed on the characteristics, both beneficial and pathogenic, that each type manifests, and the industrial and medicinal effects that the organisms have on everyday life. *Prerequisites: Successful completion of biology and chemistry.*



# Social Studies Department

The Social Studies Department promotes liberal arts instruction that leads to informed citizenship and an inculcation of Christian principles and moral values. Historical knowledge can serve as a bridge to the present, explaining and illuminating how we have developed as a civilization. Students are introduced to a thought-provoking process of investigation and analysis centered on social, political and international issues intended to foster critical thinking skills, diversity of opinion and moral sensibility.

## **World History (H, CP, CP2)**

SS - WRLD HIST 101, 110, 150 (Grade 9)

1.0 Credit

This course is a comprehensive historical survey of the civilizations of the globe from the early river civilizations to the Enlightenment. Although chronological in approach, this course explores various major themes, such as: political and economic systems; religion, society and culture; the evolution of science and technology; and the impact of a variety of diverse ideologies on the world today. This course will also focus on the development of fundamental skills, including: critical reading, writing, and the examination of primary sources and historical evidence.

## **Modern World History (H, CP, CP2)**

SS - MOD WRLD HIST 201, 210, 250 (Grades 10)

1.0 Credit

This course is a comprehensive survey of the history of the globe from the Enlightenment to the present day. Students will continue the analysis of major themes from a political, economic, social, cultural, religious, scientific, and technological perspective. In addition, emphasis will be placed on such topics as: the interaction of the West with the rest of the world; the impact of nationalism and imperialism; the Cold War; “self-determination” and the emerging global world of the 21st century. Special focus will be placed on the development of a variety of skills—such as critical reading and writing and the assessment of historical evidence and primary sources. *Honors*

*Prerequisites: Cumulative 90 average or above in CP World History*

## **United States History Since 1877 (H)**

SS - US HIST 350/UCONN HIST 1502 (Grade 11)

1.0 Credit

This UConn ECE course is academically rigorous and analyzes the development of American society from 1877 to the present. Emphasis is placed on American politics, economic life, social and cultural events, and the role of America in global affairs. *Cumulative 90 average or above in CP Modern World History*

## **United States History Since 1877 (CP)**

SS - US HIST 310 (Grade 11)

1.0 Credit

This course analyzes the development of American society from 1877 to the present. Emphasis is placed on American politics, economic life, social and cultural events, and the role of America in global affairs.

# Social Studies (cont'd)

## **Civics (CP, H)**

SS - CIVICS 410, 450 (Grade 12)

0.50 Credit

This course is an intensive study of the constitutional framework, institutions, and political processes of the United States government. Students focus on the duties, rights, and responsibilities of citizenship and develop a critical understanding of the political, economic, and social challenges in governing a pluralistic society. Case studies of historical and current issues are utilized to provide students an analytical perspective on the evolution of the United States government. Social Studies 312/313 is a required senior course. *Honors Prerequisites: Cumulative 90 average or above in CP United States History.*

## **AP European History**

SS - AP EURO HIST 280 (Grade 10)

1.0 Credit

This college-level course follows the standard syllabus approved by the College Board and focuses on the study of European History from the Renaissance to the present.. Emphasis is on critical reading and writing skills and the ability to work independently. Students will have the option to take the AP exam which will be administered in May. Pre- course summer assignments may be required. *Prerequisites: Cumulative 90 average or above in Honors World History*

## **AP United States History**

SS - AP US HIST 380 (Grade 11)

1.0 Credit

This college-level course follows the standard syllabus approved by the College Board and focuses on the study of American History from 1491 to the present. Emphasis is on critical reading and writing skills and the ability to work independently. Students will have the option to take the AP exam which will be administered in May. Pre-course summer assignments may be required. *Prerequisites: Cumulative 90 average or above in Honors Modern World History*

## **AP United States Government and Politics**

SS - AP GOV POL 480 (Grade 12)

1.0 Credit

This college-level course follows the standard syllabus approved by the College Board and is designed to provide students with an analytical perspective on government and politics in the United States. Students develop a critical understanding of the strengths and weaknesses of the American political system, as well their rights and responsibilities as citizens. Students will have the option to take the AP exam which will be administered in May. This course fulfills the Civics requirement. Pre-course summer reading required. *Prerequisites: Cumulative 90 average or above in Honors United States History.*

# Social Studies (cont'd)

## **AP Psychology**

SS - AP PSYCH 480(Grades 11, 12)

1.0 Credit

This is a college-level course providing students an overview of the diverse social and biological science of psychology through multiple perspectives and interpretations. This course emphasizes critical thinking skills in application to the social sciences by immersing students in modern psychological research, techniques, and methodologies. Some topics of study include: research methods, learning and cognition, developmental psychology, abnormal behavior and social psychology. This course follows a syllabus approved by College Board and students can elect to take the AP exam in May. *Prerequisites: Approval of the department chair*

## **AP Economics**

SS - AP ECON 480 (Grades 11, 12)

1.0 Credit

This college level course follows the standard syllabus approved by the College Board and provides a thorough understanding of the principles of economics, with particular focus on the American economic system. It covers both microeconomics and macroeconomics. Students will have the option to take the AP exam which will be administered in May. This is a full year online course. *Prerequisites: Approval of the department chair*

## **Introduction to Psychology (CP)**

SS - PSYCH 410 (Grades 11, 12)

0.50 Credit

A survey course that introduces students to human development, the brain, the nervous system, statistics, testing, learning, emotions, and communication through supervised experiments and written reports. Emphasis is placed on current theories that apply to major social problems in the modern world.

## **Introduction to Economics (CP)**

SS - ECON 410 (Grades 11, 12)

0.50 Credit

This is a survey course designed to provide students with a fundamental understanding of the workings of the global economic system and the important role played by economics in the modern world.



# Technology & Innovation Department

## **IDEA: Innovation, Design, and Engineering Applications**

STEM - IDEA 110 (Grade 9)

0.50 Credit

Milestone C's IDEA program brings freshmen students face to face with "real world experience". Using technology-centered, hands-on, inquiry-based learning, and problem solving students are faced with building an electric car company from the ground up. As the project progresses, students take on with specific roles and are tasked building a remote control electric car prototype, website and marketing materials, renderings, detailed sketches, and deliver presentations to their stakeholders. Students will have repeated opportunities to utilize their own skill sets, be a part of a simulated company, and learn new foundational skills. Using the design mindset, students will apply problem-solving skills, collaboration & cultivating teamwork, communication, practice task management & time management, and critical-thinking skills.

## **Robotics and Automated Systems (CP)**

STEM - ROBOTICS 310 (Grades 11, 12)

0.50 Credit

Milestone C's Robotics and Automated Systems (RAS) program brings students into the world of robotics, one that is interwoven consistently in the fabrics of every single engineering and scientific industry, from aerospace and automotive, to medicine and nuclear physics. Students, through building a robotic hexapod and coding/programming the robot gain understanding of how electronics, mechanics, and software come together in the 21st century, leading to articulated and automated systems design. RAS features state-of-the-art technologies that rapidly propel students from foundational topics into articulation, feedback loops, and automation programming while defining the cutting edge of STEM education at each step. Students will have the opportunity to explore hardware, software, App Development, 3D modeling & printing and Arduino programming fundamentals. RAS pushes students critical thinking, collaboration, and communication skills at various stages throughout the program. *No prior experience required.*

## **Innovative Project Design (CP)**

STEM - PRJCT DESGN 310 (Grades 10, 11, 12)

0.50 Credit

This semester course teaches students how to plan and build their own designs to achieve a goal. Students work in teams of two and are provided with the tools and materials for hands on, project based learning that tests their intellect and creativity in simple yet demanding projects where there is no single correct answer. Among other projects, students will learn to minimize the effects of friction on a propeller powered toy car; learn how to balance forces while building an index card tower to hold textbooks; and learn the aerodynamics of how to make a paper airplane that makes a sharp left turn after going straight for 50 feet.

# Technology & Innovation (cont'd)

## **Design Project & Technical Management**

STEM - TECH MNGMT 310 (Grades 11, 12)

0.50 Credit

Students embark on an extended design project emulating a real-world engineering program, complete with requirement analysis, milestone reviews, schedule management, and a detailed test program prior to fielding a complex, physical end-product. Students will benefit from the technical and soft skills acquired during this course for years to come, regardless of the career path they choose. Students interested in applying the thought process of a designer while designing, building, and testing a prototype to meet a customer's needs are encouraged to take this course. *No prior experience required.*

## **Software Development and Integration**

STEM - SW DEV 310(Grades 11, 12)

0.50 Credit

In today's global technology network, software is the single common thread tying all disciplines together. All STEM industries, without exception, benefit from the efforts of software developers, engineers, and integrators daily. This lightning-paced course will introduce students to how corporate software projects are developed, managed, integrated, and fielded. An interface-oriented approach to software development eliminates the need for any prior coding experience. Students will navigate this complex world following a project-based roadmap and leave with a significant sense of accomplishment and key professional skills after creating professional-caliber apps, games, and control algorithms. Program graduates will establish a solid foundation in software development principles. More importantly, they will gain big-picture understanding of interface management and the engineering process at large. Students interested in understanding how software and hardware affect each other and how software projects are developed in the real world are encouraged to take this course. No prior coding experience required. *No prior coding experience required.*

## **Aviation and Flight Science**

STEM - AVATION 310 (Grades 11, 12)

0.50 Credit

The primary objective of the Aviation and Flight Science course is to put high school math and science classes into applied context through the thrilling real-world framework of aviation. The secondary objective is to equip students with key college & career skills including critical thinking, public speaking, task management, and effective teamwork & communication. Through extensive ground school studies and strenuous flight training on highly realistic desktop simulators, graduates of this course will be able to boast a significant portion of the same training civilian and military pilot candidates receive in flight school without leaving the safety of the classroom environment. Students interested in aviation, physiological effects aircraft on the human body, application of physics and math in the real world are encouraged to take this course. *No prior experience required.*

# Technology & Innovation (cont'd)

## **Technology & Innovation Capstone Project (CP)**

STEM - TECH CAPSTONE 310 (Grades 11, 12)

0.50 Credit

Through an open-ended and semester-long project, students will be learning “on the job”. They are provided with a framework, deadlines, and then are required to work within their team to execute the entire design life cycle—planning, analysis, design, and implementation. This project focuses on both software and hardware with an emphasis on student autonomy, emulating industry practices. The student’s groups are structured as cross-functional engineering teams, which facilitates cohesive and consistent progress throughout the design process. By utilizing a multitude of soft and technical skills and applying them to a real-world problem, this course is an exceptional college resume builder!

## **Drone Tech and Operation**

STEM - DRONE OPS 310 (Grades 10, 11, 12)

0.50 Credit

The category of aircraft, commonly known as “Drones”, has infiltrated all sectors of business and is a multi-billion-dollar industry without any signs of slowing down. From transportation to photography, to emergency services, construction, and agriculture, drones are thriving. Drones (much like robotics) are a cross-section of technology, both in hardware and software – adapted for specific uses. Drone manufacturers, drone pilot training companies, and drone camera systems are all booming businesses. Drone racing has become a professional sport, along with drone pilots producing amazing videos, with high-level skills and accuracy. The possibilities are endless for this new technology, and our young students will certainly encounter drones in their careers. Providing students with this experience in high school will set them up for success in the future.

Students learning this emerging technology and skill set to operate drones is an experience that maximizes engagement, provides technical expertise, and supports career-connected learning.

## **Cybersecurity & Internet-of-Things**

STEM - CYBER SEC 310 (Grades 10, 11, 12)

0.50 Credit

Cybersecurity is becoming a booming industry, with every large corporation putting a major focus on how to handle their company data in a thoughtful and protected way while also allowing their workforce to have flexibility and mobility. Students learning the fundamentals of cybersecurity in high school will allow them to flourish in a variety of careers both inside security-focused companies and in careers outside of the tech industry. The Cybersecurity program will lay foundational skills in coding and networking and then build into basic skills of encryption, cryptography, and vulnerability analysis.



# Theology Department

The mission of the Theology Department is to proclaim the Gospel of Jesus Christ through the magisterial teachings of the Roman Catholic Church. It is the department goal that students be able to articulate the Faith, develop a closer relationship with the Triune God, and manifest the Gospel values in their lives.

Students are required to take a full credit of Theology each year. In the senior year, students will choose two half-credit courses during advising to meet the requirement; or enroll in the year-long Peer Ministry course.

## **Introduction to Catholicism/Old Testament (CP)**

THEO - OT 110 (Grade 9)

1.0 Credit

This foundational course for our Theology department presumes a blank slate of knowledge and seeks to ensure that students end their freshmen year with not only an understanding of what the Catholic Church believes in and why, but also how that has its foundation within the Hebrew scriptures. Students will be challenged to look at and explore the implications of the Apostles' and Nicene Creeds, as well as learn to integrate Sacred Scripture into their prayer life and moral decision-making.

## **New Testament/Christology (CP)**

THEO - NT 210 (Grade 10)

1.0 Credit

Sophomore students will further build upon the foundation established in their freshmen year through an in depth look at God's revelation in the New Testament. By spending the year studying the person, role, nature and message of Jesus Christ, students will learn not only the implications of Jesus' life on the people of His time, but also the implications for us as a society as we accept the call to carry Jesus' mission into the world. This course will emphasize the development of Christology from the first century to the modern age, and explore how the Acts of the Apostles and the Epistles illustrate the role of the early Christian community in the formation of the Church

## **Morality: Our Response to God's Love (CP)**

THEO - MORAL 310 (Grade 11)

0.50 Credit

Recognizing the complexity of living in our current age, this semester course seeks to provide students with the tools to live out a moral life. The curriculum focuses on applying the Church's moral teachings to contemporary life, with a focus on the topics of decision-making, conscience, honesty, laws, virtues, vices, etc. Students will learn how to live out God's call and bring their unique perspective into the world to make it a better place.

# Theology (cont'd)

## **Catholic Social Teaching (CP)**

THEO - CATH ST 310 (Grade 11)

0.50 Credit

Recognizing the Christian call to act on behalf of the marginalized, this semester course offers students the opportunity to take the seven principles of Catholic Social Teaching and apply them to the contemporary problems of society. With an emphasis on reflection, judgment, and action, students will not only recognize the difficulties the world is facing, but also be empowered to make change where possible. Topics included but not limited to: abortion, capital punishment, caring for God's creation, the dignity of work and rights of workers, euthanasia, prejudice and discrimination, racism, and the right to life.

## **Vocations and the Call to Holiness (CP)**

THEO - VOCATION 410 (Grade 12)

0.50 Credit

This semester course examines Christian vocations and God's universal call to holiness. In the words of Pope Francis, "To be saints is not a privilege for the few, but a vocation for everyone." Students will spend their semester considering what it means to really live life as a Christian. Topics include, but are not limited to: vocations, discernment, the sacraments of marriage and holy orders, the Christian perspective on the family and its importance in society, the consecrated life, love, one's prayer life, and the development of virtue.

## **Introduction to World Religions (CL)**

THEO - WR 500/SHU TRS265 (Grade 12)

0.50 Credit

This college-level semester course examines the origin and expression of the religious impulse from pre-history to modern times. Emphasis is placed on defining religion in general and a study of the world's major religions, including Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Islam and Christianity. Each religion is examined from the viewpoints of Theology, Cosmology, History, Anthropology, and Sociology. Students are eligible to apply to receive 3 credits from Sacred Heart University. *Prerequisites: Approval of the Department Chair.*

## **Faith and Reason (CL)**

THEO - F&R 500 (Grade 12)

0.50 Credit

This college-level semester course examines profound philosophical and theological questions through ancient and contemporary primary sources spanning the Catholic intellectual tradition, with an emphasis on the interrelation of faith and reason. Students are eligible to apply to receive 3 credits from Sacred Heart University. *Prerequisites: Approval of the Department Chair.*

## **Prayer and Spirituality (CP)**

THEO - PRAYER 410 (Grade 12)

0.50 Credit

Insofar as there are many ways to pray, this semester course offers students the opportunity to discover different methods that they can incorporate into their own spiritual journey. Students will utilize meditation and contemplation, with an emphasis on the experience of prayer to allow students to encounter the Sacred in their lives. The curriculum is split between experiencing prayer and studying the Bible to consider what it reveals about prayer. Students will consider what it means to be a disciple in the modern world and how prayer can help heal strained relationships.

# Theology (cont'd)

## **Peer Ministry (CP)**

THEO - PEER MNST 410 (Grade 12)

1.0 Credit

This year-long course is designed to help students develop and put into practice leadership skills inside and outside of the classroom. The course focuses on how the scriptures and the Gospels play a role in our lives and the practical ways we can bring these messages to our world. Students will be challenged to construct and coordinate service projects within the community, demonstrating their effective leadership skills. Students will further develop their counseling techniques, group dynamics, and public speaking by working with outside organizations and helping the community. Students will use their newly developed skills to lead small groups, retreats, and workshops. *Prerequisite: students must apply for admission to this course and receive approval from the Director of Campus Ministry.*

## **Bioethics: From Basics to the Future (H)**

THEO - BIOETHICS 450 (Grade 12)

0.50 Credit

The semester course focuses on the key Catholic approaches to health care ethics health care issues. Topics include the history of the Church's medical ethics, ethical methodologies, the development of virtues and key medical ethics issues including: reproductive technologies, abortion, genetic engineering, cloning, death and dying, euthanasia, the role of physician as healer, and organ donation. *Prerequisites: Approval of the Department Chair.*

## **World Religions (CP)**

THEO - WR 410 Grade 12)

0.50 Credit

This semester course is designed to help students develop religious literacy in accord with the directive of the Second Vatican Council declaration *Nostra Aetate* to examine the Church's relationship to non-Christian religions with the intention of "promoting unity and love among men." Students will learn to identify the similarities and differences between Catholicism, other Christian denominations, and religions such as Judaism, Islam, Hinduism, and Buddhism and how to respectfully navigate these differences.



# World Languages Department

The mission of the World Languages Department is to educate the whole student through the teaching of language, grammar, and culture. ACTFL National Standards of Communication, Connections, Comparisons, Cultures, and Communities are integrated within all World Language pedagogical initiatives. Interpretive, Presentational, and Interpersonal Modes of Communication are also incorporated in all language curriculums as to guide learners in reaching higher communication achievements in speaking, writing, reading, and listening. Additional emphasis is placed on cultural themes, topics, and issues of target language countries. The department of World Languages encourages students to look beyond their own community and embrace respect, empathy, and diversity in a multicultural society.

St. Joseph High School offers the following world languages: French, Italian, Mandarin and Spanish. Latin 1 & 2 are available through the Virtual High School Program.

## **French 1 (CP)**

WL - FRENCH 110 (Grades 9, 10, 11, 12)

1.0 Credit

This course introduces students to the sound systems and intonations of the French language with emphasis on the development of audio-lingual skills. Students are introduced to basic structures within a defined vocabulary selection in order to engage in simple conversation and develop a reasonable ability to read and write French. Students are also introduced to French culture through geography, history, and art.

## **French 2 (CP)**

WL - FRENCH 210 (Grades 9, 10, 11, 12)

1.0 Credit

This course strengthens a student's speaking, reading, writing, and listening skills. New grammatical structures and verb formations are introduced while also improving listening comprehension. Further study is developed regarding French history, civilization, and society.

## **French 3 (H)**

WL - FRENCH 350 (Grades 10, 11, 12)

1.0 Credit

introducing more advanced structures of the French language while furthering language acquisition/comprehension through listening, speaking, reading, and writing skills. Basic structures are reviewed as necessary. This is a continued study of French culture.

## **French 4 (H)**

WL - FRENCH 450 (Grades 10, 11, 12)

1.0 Credit

This course is for the advanced student who would like to strengthen and further develop language skills. Oral, written, and grammar study are conducted in French. This intermediate-high level course is designed as an interactive communicative approach focusing on meaningful contexts that develop and consolidate a student's speaking, listening, reading, writing, and cultural competencies.

# World Languages (cont'd)

## **AP French Language**

WL - AP FRENCH 480 (Grade 12)

1.0 Credit

This online college-level course follows the standard syllabus approved by College Board and is designed to develop listening, speaking, reading and writing skills using literary and conversational materials. The class is currently taken online. Students will have the option to take the Advanced Placement Exam which is administered in May.

*Prerequisites: Approval of the Assistant Principal for Curriculum and Instruction.*

## **Italian 1 (CP)**

WL - ITAL 110 (Grades 9, 10, 11, 12)

1.0 Credit

This course introduces the student to the sound systems and intonations of the Italian language with emphasis on the development of audio-lingual skills. Students are introduced to basic structures within a defined vocabulary selection in order to engage in simple conversation and to develop a reasonable ability to read and write Italian. Students are also introduced to Italian culture through geography, history, and art.

## **Italian 2 (CP)**

WL - ITAL 210(Grades 9, 10, 11, 12)

1.0 Credit

This course strengthens a student's speaking, reading, writing, and listening skills. New grammatical structures and verb formations are introduced while also improving listening comprehension. Further study is developed regarding Italian history, civilization, and society.

## **Italian 3 (H)**

WL - ITAL 350 (Grades 10, 11, 12)

1.0 Credit

This course continues introducing more advanced structures of Italian grammar while furthering language acquisition/comprehension through listening, speaking, reading, and writing skills. Basic structures are reviewed as necessary. There is also a continued study of Italian culture.

## **Italian 4 (H)**

WL - ITAL 450 (Grades 11, 12)

1.0 Credit

This course is for the advanced student who would like to strengthen and further develop language skills. Oral, written, and grammar study are conducted in Italian. This intermediate-high level course is designed as an interactive communicative approach focusing on meaningful contexts that develop and consolidate a student's speaking, listening, reading, writing, and cultural competencies.

## **Mandarin 1 (CP)**

WL - MAND 110 (Grades 9, 10, 11, 12)

1.0 Credit

This course introduces the student to the correct pronunciations and use of conversational patterns of Mandarin. Emphasis is placed on oral comprehension, speaking, writing, and reading skills. Students learn the creation and use of Mandarin characters and pinyin. Students are also introduced to Chinese culture through geography, history, and art.

# World Languages (cont'd)

## **Mandarin 2 (CP)**

WL - MAND 210 (Grades 9, 10, 11, 12)

1.0 Credit

This course strengthens oral comprehension, speaking, writing, and reading skills. Focus is placed on the creation and use of Mandarin characters as well as pinyin. Students make comparisons and connections with other cultures and communities within China while examining cultural themes, topics, and issues.

## **Mandarin 3 (H)**

WL - MAND 350 (Grades 9, 10, 11, 12)

1.0 Credit

This course continues in introducing more advanced structures of Mandarin grammar while furthering language acquirement/comprehension through listening, speaking, reading, and writing skills. This course also requires the application of language fundamentals through paired and group activities. Exposure to adapted texts complements interpretive skills of written and spoken Chinese language. *Prerequisite is a 90 average from CP course.*

## **Mandarin 4 (H)**

WL - MAND 450 (Grades 9, 10, 11, 12)

1.0 Credit

This course is for the advanced student who would like to strengthen and further develop his or her language skills. Oral, written, and grammar study are conducted in Mandarin. This intermediate-high level course is designed as an interactive communicative approach focusing on meaningful contexts that develop and consolidate a student's speaking, listening, reading, writing, and cultural competencies. *Prerequisite is a 90 average from the previous honors/CP course.*

## **Spanish 1 (CP, CP2)**

WL - SPAN 101, 110 (Grades 9, 10, 11, 12)

1.0 Credit

This course introduces students to the sound systems and intonations of the Spanish language with emphasis on the development of audio-lingual skills. Students are introduced to basic structures within a defined vocabulary selection in order to engage in simple conversation and develop a reasonable ability to read and write Spanish. Students are also introduced to Spanish culture through geography, history, and art.

## **Spanish 2 (CP)**

WL - SPAN 210 (Grades 9, 10, 11, 12)

1.0 Credit

This course strengthens a student's speaking, reading, writing, and listening skills. New grammatical structures and verb formations are introduced while also improving listening comprehension. This is a further study of Spanish history, civilization, and society.

# World Languages (cont'd)

## **Spanish 3 (H, CP)**

WL \_ SPAN 310, 350 (Grades 10, 11, 12)

1.0 Credit

This course introduces more advanced structures of Spanish grammar while furthering language acquisition/comprehension through listening, speaking, reading and writing skills. This course also incorporates Hispanic literature, culture, and current publications. The course is conducted primarily in Spanish. Honors *Prerequisite is a 90 average from CP course.*

## **Spanish 4 (H)**

WL - SPAN 450 (Grades 11, 12)

1.0 Credit

This course is for the advanced student who would like to strengthen and further develop his or her language skills. Oral, written, and grammar study are conducted in Spanish. This intermediate-high level course focuses on meaningful contexts that develop and consolidate a student's speaking, listening, reading, writing, and cultural competencies. Students also view, research, and discuss the importance of cultural figures through short Hispanic films, Spanish texts, and current publications. This course is conducted almost entirely in Spanish. *Prerequisite is a 90 average and department chair approval to move from honors to AP.*

## **AP Spanish**

WL - AP SPAN 480(Grades 11, 12)

1.0 Credit

This college level course follows the standard syllabus approved by College Board. Conducted entirely in Spanish, students use two programs specifically directed toward the AP Spanish Language and Culture Curriculum guidelines as published by College Board. The majority of homework, quizzes, tests, and projects are completed online at the vhscentral.com website. This is an interactive communicative approach that focuses on real communication in meaningful contexts. The course continues to develop a student's speaking, listening, reading, writing, and viewing skills as well as their cultural competencies. Students will have the option to take the AP exam which is administered in May.



# Summer Course Offerings

## MATHEMATICS

### GEOMETRY (H)

- Credit: 1.0
- Price: \$500
- Dates: August 7 – 25, 2023 (8:30am-11:30am)
- Open to: Students who have successfully completed Algebra 1
- Two and three-dimensional geometric figures are explored through the use of definitions, postulates and theorems. Inductive and deductive reasoning are developed in the formulation of proofs and through group activities.

## SOCIAL STUDIES

### CIVICS

- Credit: .50
- Price: \$250
- Dates: August 7 – 18, 2023 (8:30am-10:45am)
- Open to: Rising Seniors
- This course is an intensive study of the constitutional framework, institutions, and political processes of the United States government. Students focus on the duties, rights, and responsibilities of citizenship and develop a critical understanding of the political, economic, and social challenges in governing a pluralistic society. Case studies of historical and current issues are utilized to provide students an analytical perspective on the evolution of the United States government.

## TECHNOLOGY & INNOVATION

### IDEA: INNOVATION, DESIGN, AND ENGINEERING APPLICATIONS

- Credit: .50
- Price: \$300
- Dates: TBA online at [sjcadets.org/summer](http://sjcadets.org/summer)
- Open to: Rising Freshmen
- This course introduces freshmen students to technology-centered, hands-on, inquiry-based learning. Through assorted projects, students will gain the software and technical skills necessary for success in high school, college and beyond. Students will have repeated opportunities to use design mindset, learn collaboratively, practice task management, and cultivate teamwork, communication, and critical-thinking skills.

# Summer Offerings (cont'd)

## THEOLOGY

### NEW TESTAMENT/CHRISTOLOGY

- Credit: 1.0
- Price: \$500
- Dates: August 7 – 25, 2023 (8:30am-11:30am)
- Open to: Rising Sophomores
- In this course, students learn of God's revelation through an examination of the writings of the New Testament, and by studying the person, role, nature and message of Jesus Christ. Emphasis on the development of Christology from the first century to the modern age, and an exploration of the Acts of the Apostles and the Epistles illustrate the role of the early Christian community in the formation of the Church. Students learn to integrate Scripture into prayer life and moral decision-making.

### CATHOLIC SOCIAL TEACHINGS

- Credit: .50
- Price: \$250
- Dates: August 7 – 18, 2023 (8:30am-10:45am)
- Open to: Rising Juniors
- This course examines the history of Roman Catholic social teaching with an emphasis on Church Documents promulgated by Popes and Bishops. With an emphasis on the principles of Catholic social teaching using reflection, judgment, and action, topics include justice and society, the right to life, prejudice, racism, peace, work, and the environment.

## WORLD LANGUAGE

### SPANISH 4

- Credit: 1.0
- Price: \$500
- Dates: August 7 – 25, 2023 (8:30am-11:30am)
- Open to: Students who have successfully completed Spanish 3
- This course is for the advanced student who would like to strengthen and further develop his or her language skills. Oral, written, and grammar study are conducted in Spanish. This intermediate-high level course focuses on meaningful contexts that develop and consolidate a student's speaking, listening, reading, writing, and cultural competencies. Students also view, research, and discuss the importance of cultural figures through short Hispanic films, Spanish texts, and current publications. This course is conducted almost entirely in Spanish.



# Virtual High School (VHS)

St. Joseph High School offers Advanced Placement courses in collaboration with The Virtual High School, a non-profit organization based in Maynard, Massachusetts, which serves as a portal through which schools and teachers throughout the world offer online courses. Our partnership with VHS allows us to expand our AP course offerings to provide students with the most challenging and extensive academic curriculum possible taught by certified teachers in accredited schools

## **VHS Coordinator:**

Mr. Brian Gavin

Assistant Principal for Curriculum and Instruction

bgavin@sjcadets.org

(203) 378-9378 x 301

VHS online AP courses present a rigorous curriculum and are best suited for independent, self-motivated students. Students who are successful at taking online courses must be organized, independent learners, who can advocate for themselves when a problem arises.

Students may consider VHS AP courses that are not currently offered at St. Joseph High School and are relevant to the student's intended major or career path.

## **Eligibility**

Students must apply to take a VHS course by submitting:

1. An application for enrollment
2. An interview with the Assistant Principal for Curriculum and Instruction

Approval to enroll in an online VHS class will be made by the Assistant Principal for Curriculum and Instruction.

## **Grading**

VHS course grades are posted on student report cards, transcripts and factor into honor roll status and cumulative GPA. Please note, the passing grade for VHS courses is 60, however, St. Joseph High School students must earn a 65 to earn a passing grade and credit. See the VHS information on Plus Portals for further requirements.

# The Virtual High School Course Catalog

The Virtual High School offers over 200 unique courses including 23 AP® options, core courses, engaging electives, credit recovery. Courses subject to change. For a complete list and course descriptions visit [VHSLearning.org/Catalog](http://VHSLearning.org/Catalog).

## Advanced Placement®

AP® Art History ▲  
 AP® Biology ▲  
 AP® Calculus AB ▲  
 AP® Calculus BC ▲  
 AP® Chemistry ▲  
 AP® Computer Science A ▲  
 AP® Computer Science Principles ▲  
 AP® Economics ▲  
 AP® English Language and Composition ▲  
 AP® English Literature and Composition ▲

AP® Environmental Science ▲  
 AP® European History ▲  
 AP® French Language and Culture ▲  
 AP® Human Geography ▲  
 AP® Music Theory ▲  
 AP® Physics 1 ▲  
 AP® Physics C ▲  
 AP® Psychology ▲  
 AP® Spanish Language and Culture ▲  
 AP® Statistics ▲  
 AP® United States Government and Politics ▲  
 AP® U.S. History ▲  
 AP® World History ▲

## Arts

American Popular Music  
 AP® Art History ▲  
 AP® Music Theory ▲  
 Art History  
 Art History: Art of the Caribbean Islands  
 Creating Art History  
 History of Photography  
 Music Listening and Critique  
 Music: Fundamentals of Composition

## Business

Business and Personal Law  
 Business Math  
 Entrepreneurship  
 International Business  
 Investing in the Stock Market  
 Marketing and the Internet  
 Personal Finance

## Computer Science and Technology

AP® Computer Science A ▲  
 AP® Computer Science Principles ▲  
 CAD

Creative Programming with Scratch  
 Introduction to Computer Science Principles  
 Java Fundamentals for Science and Engineering  
 Java Programming  
 Programming in Visual Basic  
 Video Game Design  
 Web Design

## Engineering

CAD  
 Engineering Principles for Science and Engineering  
 Java Fundamentals for Science and Engineering  
 Sustainable Engineering

## English as a Second Language (ESL)

American Studies ▲  
 English Foundations  
 Introduction to Natural Science for ESL Students ▲

## Language Arts

101 Ways to Write a Short Story  
 Academic Writing

AP® English Language and Composition ▲  
 AP® English Literature and Composition ▲

Creative Writing  
 English 9 ▲  
 English 10 ▲  
 English 11 ▲  
 English 12 ▲  
 Essay Writing  
 Fantasy and Science Fiction Short Stories

Film and Literature  
 Folklore and Literature of Myth, Magic and Ritual  
 Ghoulies, Ghosties, and Long-Legged Beastsies  
 Horror Writers

Journalism in the Digital Age  
 Literature of the World  
 Mythology  
 Poetry Writing  
 Screenwriting Fundamentals  
 Shakespeare in Film  
 Twentieth Century Women Authors  
 Young Adult Literature

## Life Skills/Health

Employability Skills  
 Health  
 Kindergarten Apprentice Teacher  
 Now What Will You Do?  
 Parenting in the 21<sup>st</sup> Century  
 Physical Education: Personal Fitness  
 Preparing for College  
 Who Do I Want to Be When I Grow Up?

## Mathematics

Algebra 1 ▲  
 Algebra 2 ▲  
 AP® Calculus AB ▲

AP® Calculus BC ▲  
 AP® Statistics ▲  
 Differential Calculus  
 Essential Math for College & Careers  
 Geometry ▲  
 Math and Modern Logic  
 Mathematics of Electricity  
 Number Theory  
 Pre-Calculus ▲  
 Pre-Calculus I: Advanced Trigonometry  
 Pre-Calculus II: Functions  
 Statistics  
 Statistics Honors

## Science, Life

Anatomy and Physiology  
 Animal Behavior and Zoology  
 AP® Biology ▲  
 AP® Environmental Science ▲  
 Biochemistry  
 Bioethics  
 Biology ▲  
 Biotechnology  
 Epidemics  
 Evolution and the Nature of Science  
 Introduction to Natural Science for ESL Students  
 Genes and Disease  
 Prevetinary Medicine  
 Science from Space  
 The Human Body

## Science, Earth & Space

AP® Environmental Science ▲  
 Astronomy Principles  
 Climate Science  
 Earth and Space System Science ▲  
 Environmental Science  
 Environmental Science Honors  
 Meteorology  
 Oceanography

