

ST. JOSEPH'S COLLEGIATE INSTITUTE

2026-2027

# COURSE CATALOG



St. Joseph's Collegiate Institute transforms the lives of students from diverse backgrounds through academic excellence and care for the whole person in a respectful, Lasallian Catholic community, developing each student's unique talents in preparation for college and life.

St. Joseph's Collegiate Institute offers a rigorous and comprehensive curriculum designed to support our mission of preparing students for college and life. The Course Catalog includes a variety of options designed to meet our students' various interests and abilities.

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# GRADUATION REQUIREMENTS

The general distribution of the 30.0 credits required for graduation is outlined in the Courses of Study listed on the right. Some particular items to note:

- All students are required to take a course in Health (.5 credit). Online Health is available at SJCI at an additional cost.
- All students are required to complete one (1.0) full Fine Arts credit by the end of their sophomore year.
- All students are required to take Public Speaking (.5 credit) during their senior year.
- Students are required to take Government & Economics in their junior and/or senior year.
- All students are required to complete one additional Math or Science credit during their senior year, for a total of seven (7.0) Math/Science credits.
- Graduation requirements may be adjusted in some areas for students entering SJCI after their freshman year.
- Incoming freshmen who have received credit for accelerated programs in elementary/middle school will generally be placed in Honors or advanced level courses during their freshman year. Credits do not transfer in.

# COURSES OF STUDY

## CLASS OF 2030

<b>Course</b>	<b>Credits</b>
Religion 9	1.0
English 9 or 9H	1.0
Algebra 1, Geometry, or GeometryH	1.0
Biology, Geology, or Chemistry	1.0
The American Journey 9 or 9H	1.0
Modern Language	1.0
Fine Arts	1.0
Physical Education 9	.5

## CLASS OF 2029

<b>Course</b>	<b>Credits</b>
Religion 10	1.0
English 10 or 10H	1.0
Algebra I, Algebra II/H	1.0
Chemistry, Geology, or Physics	1.0
World or AP World History	1.0
Modern Language	1.0
Health	.5
Elective	1.0
Physical Education 10	.5

## CLASS OF 2028

<b>Course</b>	<b>Credits</b>
Religion 11	1.0
English: AP or Elective	1.0
Algebra II, Int. Algebra, Precalculus or AP Precalculus	1.0
Science: AP, Physics or Environmental	1.0
Social Studies: AP or Electives	1.0
Modern Language	1.0
Elective	1.0
Physical Education 11	.5

## CLASS OF 2027

<b>Course</b>	<b>Credits</b>
Religion 12	1.0
English: AP or Elective	1.0
Social Studies: AP or Electives	1.0
Electives	2.0
Public Speaking	.5
STEM	1.0
Physical Education 12	.5

## COURSE PLACEMENT/CHANGES

SJCI has prepared this course description brochure to assist students in the course selection process. All course placements are contingent on final June grades and completion of course prerequisites. In some cases, course offerings are tentative, based on student needs and staffing availability. The school reserves the right to withdraw any course or section of a course, as well as limit the number of students scheduled for a given course or section. Students should consult with their counselor, teachers, and parents in the selection process. After the course request and verification processes are completed, all course selections are considered final. Once an over-elected course is scheduled, a student may not drop the course without the school's approval.

## CHRISTIAN MINISTRY

In the spirit of our founder, St. John Baptist de La Salle, and in keeping with our philosophy, a Christian Ministry Service Project is required of all students who attend SJCI. All students must complete 20 hours of service at an approved site by the close of the third marking period.

## HONORS/ADVANCED PLACEMENT COURSES

Honors and Advanced Placement courses are designed to challenge a student. These courses require increased academic class work and homework. Students should carefully evaluate their total academic, activity, and social obligations as they select Honors and AP courses each year. These courses are given extra weighting when calculating a student's Grade Point Average. Weightings are as follows: Honors at 1.03; AP at 1.05. All Advanced Placement students are **required** to take the AP examination in their subject area in May.

## SUMMER READING REQUIREMENT

All students must complete a summer reading assignment. Reading lists will be distributed near the end of the second semester. Summer reading assignments will be integrated into the September curriculum in various subject areas.

## COURSE FEES

Courses that have additional operation fees include but are not limited to: laboratory science courses, art courses, Engineering, and Computer Aided Design. These fees will be billed after the start of the semester. All AP courses have an exam fee. Any courses associated with a college or university have additional fees for college credit.

2026-2027

# COURSE OFFERINGS



## COMPUTER SCIENCE

### Computer Aided Design – Architecture 8064 (1.0 Cr.)

This course will introduce students to architectural and structural design using Revit Architecture. Residential and Commercial designs will be covered. Structures designed by the students on the software will also be built using real building materials (wood, ceramic tile, gypsum board, etc.) for structural analysis. Students may enroll in both CAD courses concurrently..

### Computer Aided Design – Mechanical 8065 (1.0 Cr.)

This course will introduce students to mechanical design using AutoCAD. Mechanical design teaches students how to illustrate mechanical parts in 2D and 3D views. Parts designed by the students on the software will also be built using 3D printers. Students may enroll in both CAD courses concurrently.

### Cybersecurity & Computer Forensics 8033 (1.0 Cr.)

This course will introduce students to various tools that will allow them to create and protect against cyber threats. This is a fast paced class with a new topic taught weekly. Topics include: virus creation and removal, manipulated images, fake websites, passwords, facial recognition, fingerprints, remote connections, and more.

### E-Commerce 8050 (1.0 Cr.)

This course will teach students how to conduct business online and manage the technical issues associated with constructing an e-Commerce Website. Students will learn how to create servers, websites, apps, and office related documents, and explore how to create images for branding.

### Intro to Coding through Game Design and Development 8070 (1.0 Cr.)

Unleash your creativity by designing and developing interactive games! After an introduction to the Python programming language and development of some basic coding skills, this course introduces students to the fundamentals of game design, including game mechanics, storytelling, and player interaction. Students will gain hands-on experience with modern tools and programming languages including Python, Jupyter notebooks, Markdown, and LaTeX. Through a blend of interactive projects, and collaborative challenges, students will develop a comprehensive understanding of these essential skills. Using beginner-friendly tools such as Pyxel or PyGame, students will bring their ideas to life by creating games that challenge and entertain. Along the way, students will learn essential programming concepts such as event handling, collision detection, and working with graphics and sound. No prior experience in programming is needed.

### Smart Systems and Intelligent Devices 8067 (1.0 Cr.)

Step into the world of smart technology by creating your own connected devices! This course introduces students to the Internet of Things (IoT), where everyday objects become smarter through sensors, microcontrollers, and networking. Students will work hands-on with platforms like Arduino or Raspberry Pi to build projects such as smart home devices, weather stations, or wearable tech. Alongside coding, students will learn basic electronics and how devices communicate in a networked world. In the second half of this course, students will explore how computers learn from data to make predictions, recognize patterns, and solve problems as they discover the fascinating world of artificial intelligence (AI) and machine learning (ML). Using Python and beginner-friendly libraries such as scikit-learn, students will work on hands-on projects like image recognition, text analysis, and simple neural

networks. This course balances coding and conceptual understanding, making it accessible to students new to programming while offering valuable insights into one of today's most impactful technologies. No prior experience in programming or electronics is needed.

### **Advanced Python Programming and Applications 8066 8020 (1.0 Cr.)**

Building on the foundations established in Intro to Coding, this course challenges students to expand their programming skills through the exploration of discrete mathematics and realworld problem-solving applications. Students will delve into advanced Python concepts while learning to model and analyze problems relevant to fields such as cryptography, algorithms, graph theory, and data analysis. With a focus on applied mathematics, students will work on interactive projects and collaborative challenges that foster computational thinking and deepen their understanding of programming as a tool for innovation. This course emphasizes creativity, logical reasoning, and technical proficiency, preparing students for advanced studies in computer science or STEM fields. *Prerequisites: Prior experience with Python or completion of AP Computer Science A.*

### **Advanced Placement Computer Science A 8020 (1.0 Cr.)**

This course is a college level course in Computer Science. It will use the Java programming language as its medium. Students will, in the course of the year, learn to code in Java and then use this information to learn several standard programming algorithms. The course will closely follow the course outline offered by the College Board. Basic course topics include Object-Oriented Program Design, Program Implementation and Applications, Program Analysis, and Standard Algorithms. All students will be prepared for and expected to take the AP Computer Science examination in May.

### **Advanced Placement Computer Science Principles 8021 (1.0 Cr.)**

This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. All students will be prepared for and expected to take the AP Computer Science Principles examination in May.

### **Advanced Placement Cybersecurity 8032 (1.0 Cr.)**

This course offers a broad introduction to the field of cybersecurity, focusing on common threats and vulnerabilities and how they combine to create risk. Students examine how individuals and organizations manage

and mitigate risk through a defense-in-depth strategy. The course explores specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Course content and skills align with the professional competencies outlined in the National Initiative for Cybersecurity Education (NICE) Workforce Framework. All students will be prepared for and expected to take the AP Cybersecurity examination in May.

## **ENGLISH FRESHMEN**

### **English 9 3006 (1.0 Cr.)**

This literature course is designed to expand students' cultural awareness and help create global citizens through the close examination of great works of literature from around the world. Students will engage with the cultural, racial, and religious differences that have bound and divided the peoples of the world and be encouraged to meet these new perspectives with tolerance and an open mind. The literature component of the course focuses on the various genres – drama, poetry, short story, novel, and non-fiction – in both classic and contemporary works. It stresses the importance of reading quality literature and developing writing skills through frequent essays and other composition assignments. English 9 will build the foundation of strong high school writing and critical thinking.

### **English 9 Honors 3007 (1.0 Cr.)**

This advanced course examines literature in greater depth than the English 9 course, adding classic and contemporary works by authors such as Satrapi, Shakespeare, Camus, and Golding. Through more rigorous study, students will expand their cultural awareness and become global citizens through the close examination of works of great literature. Students will engage with the cultural, racial, and religious differences that have bound and divided the peoples of the world and be encouraged to meet these new perspectives with tolerance and an open mind. The composition component of the course expands on existing writing and critical thinking skills through analytical papers, opinion responses, creative writing, and close reading.

## **SOPHOMORES**

### **English 10 – The Great Works 3034 (1.0 Cr.)**

This literature course is designed to strengthen the

reading comprehension and cultural awareness of students. This class is designed around masterworks of literature and will thematically explore issues of justice, identity, class struggle, and the complexities of human connections. Major works may include Shakespeare's *Macbeth*, Fitzgerald's *The Great Gatsby*, and Orwell's *1984*. Building on the foundational skills of English 9, this class continues the development of complex skills in writing and critical thinking through analytical papers, argumentative essays, and personal reflections. In addition, research methodologies will be developed and students will produce a fully completed research project.

### **English 10 Honors – The Great Works**

#### **3035 (1.0 Cr.)**

This advanced literature-based course is designed to strengthen the reading comprehension and cultural awareness of students in great depth. Higher standards in written work are expected, and the reading load is significantly greater, usually accounting for three works per semester. This class is designed around great masterworks of literature and will thematically explore issues of justice, identity, class struggle, and the complexities of human connections. Major works may include Shakespeare's *Macbeth*, Fitzgerald's *The Great Gatsby*, Shelley's *Frankenstein*, and Orwell's *1984*. Building on the foundational skills of English 9 Honors, this class continues the development of complex skills in writing and critical thinking through analytical papers, argumentative essays, and personal reflections. In addition, research methodologies will be developed and students will produce a fully completed research project. *Prerequisite: The recommendation of English 9 teachers.*

## **JUNIORS & SENIORS**

### **Black Voices in Literature**

#### **3075 (1.0 Cr.)**

This course closely studies the contributions to literature and culture by black authors and artists by sharing rich history and culture. With themes of Resilience, Resistance, Identity, and Expression, the students will study a number of writers and artists who have helped to create an identifiable voice that breaks down barriers of inequity and stereotypes.

### **Crime and Detective Fiction**

#### **3062 (1.0 Cr.)**

This course addresses the topic of crime in classic and contemporary fiction and film. Crime and detective fiction can offer intense action, intellectual challenge, and access to criminal underworlds, political and social critique, and the exploration of the psyche. By its very nature, crime challenges authority and the boundaries of social norms while also revealing a great deal about the fears, taboos, and paranoia of a society. We will begin with the Gothic crime tales of Sherlock Holmes, and then examine the "hard-boiled" noir detective classics of mid-century

America, along with contemporary accounts of crime and detective work in fiction and film. We will focus on the social, historical, political, and psychological frameworks of these stories, and follow detectives both smart and cunning, and damaged and alone. We will read the stories of crime, trials, and detective work that shake the very foundations of the soul, and reveal the psyche of those who dare trespass society's norms. Along with reading and analyzing literature and film, students will also write five major essays, including two major research papers and one research-based presentation that address the core elements of writing, while also emphasizing the skills of collecting and evaluating research.

### **Gods and Heroes: Myth, Meaning, and Sacrifice**

#### **3063 (1.0 Cr.)**

The ancient Greeks and Romans created these great myths to not just leave us with great stories of heroic action and valiant characters, but to try to provide answers to man's great questions: What is our relation to a higher power? What is a hero? How are humans flawed? Are we in control of our own destinies? The foundation of this course is based on Homer's great epic, and designed to look at heroic actions taken by valiant characters, the great journey, a look at man's fate vs. free-will. Students will then look at how the ancient myths have influenced our modern culture through literature. Written works may include Homer's *Odyssey*, *A Prayer for Owen Meany* by John Irving, *Good Omens* by Neil Gaiman, *Peace Like a River* by Leif Enger, *The Spire* by William Golding, and *The Lion, The Witch, and the Wardrobe* by C.S. Lewis. Students will study rhetorical devices, style, and form of literature as it relates to several modern novels, poetry, and verse. Students will practice critical thinking and analytical writing skills with the course culminating in a comprehensive research project and paper on ideas presented in class.

### **The Psychology of Fear: A Study in Horror Literature**

#### **3068 (1.0 Cr.)**

This class will examine the dark, twisted side of human nature. Through the study of horror literature, students will dissect the intricate plots, complex characterizations, and the artistic crafting of suspense of the selected works. Besides literary analysis, students will be introduced to psychological concepts and perspectives (Biological, Cognitive, Behavioral, Evolutionary, Humanistic) and will explore how personality disorders, mass hysteria, trauma, and fear play a factor in literature and everyday life. Written works may include *Dracula* by Bram Stoker, *Dr. Jekyll and Mr. Hyde* by Robert Louis Stevenson, and *The Shining* by Stephen King. Along with reading and analyzing literature, students will also write four to five major research papers and at least one research-based presentation that address the core elements of writing, while also emphasizing the skills of collecting and evaluating research.

## **Rebellion Literature**

### **3069 (1.0 Cr.)**

This course will examine those individuals who just can't seem to follow the rules. These individuals and groups spawned literary, cultural and artistic movements that derived energy from dissatisfaction, and the diversity, grittiness and unpredictable nature of their environments. We will spend time examining the nature and development of these rebels, including the angst-fueled protagonist in *The Catcher in the Rye*, the worldwide culture of graffiti artists like Banksy and Sheppard Fairey, the childlike innovation of artist Jean-Michel Basquiat, and the dissatisfied transcendental philosopher, Henry David Thoreau. We will also study various writers and poets who felt the need to question, challenge and upturn conformity. We will try to understand the social, political and economic contexts of their works as well as how their rebellious attitudes shaped counter cultures and opened spaces for youth culture and identity to have a say in the world. This course will incorporate student driven research and will be reading and writing heavy. Written works may include: *The Catcher in the Rye*, *Walden*, *Brave New World*, and *Dr. Faustus*.

## **Science Fiction Literature**

### **3067 (1.0 Cr.)**

Science fiction isn't really a fanciful view of the future; it is a harsh examination of the now. This genre, more than any other, tackles the difficult questions we have about our social and political structures, scientific breakthroughs, and philosophical views on our very existence. In this course, students will read five to six major works of science fiction. Major works may include Wells' *The Time Machine*, Asimov's *Foundation*, and Card's *Ender's Game*. Each explore a different facet of the genre and tackle many challenging themes. We will be analyzing these texts using history, sociology, psychology, religion, politics, and of course, scientific principles. Along with reading and analyzing literature, students will also write two major research papers and one research-based presentation that address the core elements of writing, while also emphasizing the skills of collecting and evaluating research.

## **Spy Literature**

### **3071 (1.0 Cr.)**

This course will explore the genre and the history of spies and espionage from World War II to the Cold War and right to the War on Terrorism and the era of Homeland Security. Students will read a survey of great spy fiction and non-fiction; stories will cover the code breakers who helped take down the Nazi regime to the Soviet hunting James Bond to the CIA analysts preventing the next 9/11. The class will also incorporate some of the great spy films of all time. The course also investigates the complex history and geo-political issues that shape espionage. We will look how WWII shaped the Cold War, the chess game between the US and Soviet Union that played out

in Afghanistan and Vietnam, the gun-running and drug cartels and their impact on South America, the religious and political tensions found in the Middle East, and the Patriot Act and homeland security issues on our shores.

## **The Wrongfully Accused: Exposing Injustices through Literature**

### **3074 (1.0 Cr.)**

This course delves into the unfortunate reality of wrongful convictions, shedding light on the flaws embedded within the legal system. Through various works, students will explore the causes, consequences, and potential solutions surrounding cases of individuals who have been unjustly convicted. This course will also look at how race, social status and other factors play a role in the wrongfully convicted. Drawing on real-life examples, legal frameworks, and societal implications, this course aims to foster a critical understanding of the complexities inherent in the justice system.

## **Advanced Placement English**

### **3046 (1.0 Cr.)**

Students in this course will read poetry, fiction, and drama in great detail to better observe how literary artists use language to create meaning. Major works may include titles like *Richard III*, *Jane Eyre*, *Portrait of the Artist as a Young Man*, *Death of a Salesman*, and *The Amazing Adventures of Kavalier and Clay*. There are also frequent readings in poetry and non-fiction prose. Since the typical college English course is a writing course, the AP English course at SJCI is especially structured to make students more disciplined and precise writers, through weekly written assignments and frequent exercises in revision and timed writing. The AP English course is offered in cooperation with the College Board's Advanced Placement program. All students who take the course must also take the national exam in May. *Prerequisite: Sophomore or Junior year English teachers will recommend students who may select this course.*

## **Advanced Placement Seminar**

### **3040 (1.0 Cr.)**

AP Seminar is an innovative course that equips students with independent research, collaborative teamwork, and communication skills that are valued by colleges. This class engages students in cross-curricular conversations and readings based on student interest that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. This course is designed around six essential skills and their development—critical thinking and reasoning, critical reading, inquiry and research, argumentation, communicating publicly, and collaboration. Students will practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn how to synthesize information from multiple sources, develop their own

perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. *AP Seminar can be taken junior or senior year and meets the required English credit.*

### **Advanced Placement Research 3041 (1.0 Cr.)**

AP Research is an interdisciplinary course that encourages students to demonstrate critical thinking and academic research skills. Students will design, plan, and implement a yearlong investigation to address a research question of individual interest. Through this inquiry, they will further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. *Prerequisite: Successful completion of AP Seminar scoring 3 or above on the AP Seminar exam.*

## **MATHEMATICS**

### **Algebra I 1014 (1.0 Cr.)**

This is the first course in a 3-year integrated sequence of mathematics that will include elements of algebra, geometry, and advanced algebra/trigonometry each year. The primary focus of Algebra I will be on expanding students' understanding of algebraic concepts, but elements of the course will be designed to further the student's knowledge of both geometry and trigonometry.

### **Geometry 1124 (1.0 Cr.)**

This is the second course in a 3-year integrated sequence of mathematics that will include elements of algebra, geometry, and advanced algebra/trigonometry each year. The primary focus of Geometry will be building students' geometric knowledge while also introducing basic algebra concepts. *Prerequisite: Successful completion of Algebra 1.*

### **Geometry Honors 1125 (1.0 Cr.)**

This course is open to students who have successfully completed Algebra 1 in 8th grade. Geometry Honors is the beginning of a 3-year sequence which will prepare students to take Advanced Placement Calculus during their senior year. The primary focus for this course will be topics in geometry, but elements of the course will be designed to further the students' understanding of algebra. *Prerequisites: Successful completion of Algebra I with a Regents score of 85% or above and/or departmental approval.*

### **Algebra II 1213 (1.0 Cr.)**

This is the third course in a 3-year integrated sequence of mathematics that will include elements of algebra, geometry, and advanced algebra/trigonometry each year. The primary focus of Algebra II will be on expanding students' understanding of advanced algebraic concepts. Elements of this course will be designed to further the students' knowledge of both geometry and trigonometry. *Prerequisites: Successful completion of Algebra I and Geometry in either order with a minimum grade of 75% in both courses or departmental approval.*

### **Algebra II Honors 1225 (1.0 Cr.)**

This is the third course in a 3-year integrated sequence of mathematics that will include elements of algebra, geometry, and advanced algebra/trigonometry each year. The primary focus of Algebra II will be on expanding students' understanding of advanced algebraic concepts, but elements of the course will be designed to further the student's knowledge of both geometry and trigonometry, as well as additional advanced topics. *Prerequisites: Successful completion of Geometry Honors or Algebra I Honors with a minimum grade of 85% and departmental approval. Students not previously enrolled in Honors must have a minimum course grade of 90% in all four quarters of the previous year and departmental approval.*

### **Intermediate Algebra 1203 (1.0 Cr.)**

This junior level course is an alternative to Algebra II that will further develop the concepts learned in Algebra I and extend those into more advanced algebraic applications. This course will also include statistics and data science with less emphasis placed on trigonometry while preparing students for the Math portion of the SAT. *Prerequisites: Departmental approval.*

### **Introduction to Financial Algebra 1325 (1.0 Cr.)**

Financial Algebra is designed to engage students with real-world financial applications while maintaining mathematical rigor. Each unit blends one or more core personal finance topics and one or more relevant math concepts. Students will learn mathematical topics necessary to succeed in a college math course while being shown how they apply to financial applications such as checking/savings account, compound interest, taxes and filing tax returns, investing, credit and more. *Prerequisites: Successful completion of Intermediate Algebra OR students enrolled in Algebra II who do not meet the prerequisite for Precalculus.*

### **Introduction to Statistics with Probability 1320 (1.0 Cr.)**

This course prepares students to successfully step into a college statistics course. Students will develop an understanding of the statistic principles used in business and economics courses, as well as other careers that

rely on statistics. The course emphasizes statistical thinking and problem solving, and less theory.

*Prerequisites: Successful completion of Algebra II or Intermediate Algebra.*

### **Precalculus 1304 (1.0 Cr.)**

This course is designed to assist students in the transition from skill development in mathematics to the abstract approach encountered in college mathematics programs.

*Prerequisites: Successful completion of Algebra II in June, with a minimum final grade of 75%, and/or departmental approval.*

### **AP Precalculus 1306 (1.0 Cr.)**

This course prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common 9 modern languages to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. *Prerequisites: All students must have departmental approval. Students not enrolled in Algebra II Honors must also have a minimum course grade of 90% in all four quarters of Algebra II.*

### **Applied Mathematics and Calculus 1315 (1.0 Cr.)**

This course is designed to provide accelerated students with the opportunity to continue their study of mathematics at an advanced level, with a focus on applications. *Prerequisites: Successful completion of Pre-Calculus or Pre-Calculus Honors with a minimum final grade of 80% and departmental approval.*

### **Advanced Placement Calculus - AB 1316 (1.0 Cr.)**

This is a college level course offered in conjunction with College Board. Topics will include real analysis, analytic geometry, limits, derivatives, related rates, maximum minimum problems, integration, areas bounded by curves, volumes of solids of rotation, and differential equations. Students will complete the AP Calculus AB Examination given in May. *Prerequisites: Enrollment is by invitation of the Mathematics Department with final placement based upon June grades.*

### **Advanced Placement Calculus - BC 1317 (1.0 Cr.)**

This course is the equivalent of a full-year engineering calculus course. Topics will include differential calculus: techniques of taking the derivative and applications of the derivative; integral calculus: techniques of integration

including partial fractions and trig substitution and applications of the integral; introduction to the calculus of parametric equations and polar coordinates; introduction to the application and solution of simple differential equations; sequences, series, power series, and approximations of functions using infinite power series. Students will complete the AP Calculus BC Examination given in May. *Prerequisites: Successful completion of Pre-Calculus Honors and by invitation of the Mathematics Department, with final placement based upon June grades*

### **Advanced Placement Statistics 1506 (1.0 Cr.)**

This course is designed to give students a fundamental understanding of the elements of probability, basic concepts of hypotheses testing, inferences about populations, and regression analysis. Designed as an in-depth look at the applications of statistics within the real world, the students will complete the AP Statistics Exam in May. *Prerequisite: Mathematics Departmental approval.*

### **Gifted Math Program 1405/1406 (1.0 Cr.)**

St. Joseph's Collegiate Institute participates in the Gifted Mathematics Program offered at the State University of New York at Buffalo.

## **MODERN LANGUAGES**

### **French 9 2014 (1.0 Cr.) German 9 2114 (1.0 Cr.) Spanish 9 2214 (1.0 Cr.)**

Level 9 courses are designed to acquaint students with a modern world language and to develop the skills of listening comprehension, speaking, reading and basic paragraph writing. Students study grammar, fundamental vocabulary and culture in a communicative environment. There is no prerequisite for these courses.

### **French 10 - 2024 (1.0 Cr.) German 10 - 2124 (1.0 Cr.) Spanish 10 - 2224 (1.0 Cr.)**

Level 10 courses focus on conversation, listening comprehension, culture, reading and paragraph writing. There is a continued emphasis on communicative proficiency. Honors level students will have additional work and responsibilities while exploring the language at an increased pace. *Prerequisite: 1.0 language credit from New York State.*

### **French 11 - 2034 (1.0 Cr.) German 11 - 2134 (1.0 Cr.) Spanish 11 - 2234 (1.0 Cr.)**

Level 11 courses emphasize listening comprehension, reading, culture, composition and speaking skills.

Supplementary materials are used throughout these courses.

**French 12 - 2044 (1.0 Cr.)**

**German 12 - 2144 (1.0 Cr.)**

**Spanish 12 - 2244 (1.0 Cr.)**

Level 12 courses are designed to enhance the skill levels through speaking, reading, advanced composition and research. Greater attention is also given to the culture of the target language. Supplementary materials are used throughout the courses.

**AP French - 2056 (1.0 Cr.)**

**AP German - 2156 (1.0 Cr.)**

**AP Spanish - 2256 (1.0 Cr.)**

The Advanced Placement program is an intensive study of the foreign language, requiring considerable reading, writing, listening and speaking. All students will take the College Board AP Examination given in May. *Prerequisite: Enrollment into AP courses is by invitation of the department.*

## PHYSICAL EDUCATION/HEALTH

### FRESHMEN/SOPHOMORES

**Physical Education 9      7100 (.5 Cr.)**

**Physical Education 10      7200 (.5 Cr.)**

Students continue to build fundamental movement skills through instruction and participation in practice and game-play in many sports, including but not limited to soccer, football, volleyball, hockey and whiffle ball. Game concepts and strategies are introduced and reinforced. Throughout the course, an emphasis is placed on improving individual levels of physical fitness while introducing students to ways to maintain a physically active lifestyle. Cardiovascular exercise, proper warm up, stretching, and safe resistance training are intertwined throughout the curriculum in order to improve the health and wellness of the individual. Students are fitness tested twice a year using the Fitnessgram assessment program.

**Health  
7000 (.5 Cr.)**

This course is an introduction to modern health and personal care. Topics include first aid, social and communicable diseases, mental illness, nutrition, drugs, alcohol, smoking, and other related health topics. This course is required by New York State.

### JUNIORS/SENIORS

**Physical Education 11      7300 (.5 Cr.)**

**Physical Education 12      7400 (.5 Cr.)**

This course continues the development of the individual and group skills begun during the freshman and sophomore years. The emphasis is more on the performance of previously learned skills and lifetime activities. Students

will need to demonstrate more advanced skill techniques and will be graded accordingly.

## RELIGION

At SJCI, we aim to mentor our students in five distinct aspects of our Catholic Lasallian tradition: Respect for all Persons, Faith in God, Quality Religious Education, Concern for the Poor, and Appreciation of our Individual God-given Charisms.

### FRESHMEN

**Religion 9  
5004 (1.0 Cr.)**

This course focuses on the students' own relationship with and their faith in the presence of God. This course recognizes that we believe in the living presence of God in each other, in our community, and in our world. The course provides an introduction to the Lasallian learning community and the tradition of which St. Joe's is a part.

### SOPHOMORES

**Religion 10  
5024 (1.0 Cr.)**

Religion 10 deepens students' understanding of the Catholic faith through the study of Sacred Scripture, Catholic theology, Church history, and the Sacraments. Rooted in the Lasallian tradition, the course highlights the life and legacy of St. John Baptist de La Salle and the Christian Brothers, with focused study of the Gospel of Mark and the Acts of the Apostles. Students are encouraged to reflect on their beliefs, develop moral decision-making skills, and recognize their call to live as disciples in today's world.

### JUNIORS

**Religion 11  
5035 (1.0 Cr.)**

The Religion 11 curriculum focuses primarily on living out the faith experience through a global lens. This course empowers students to examine society critically based on values from the seven themes of Catholic Social Teaching, papal documents, and the Second Vatican Council's call to look into the "Signs of the times and interpret them in the light of the Gospel." The course addresses specific topics including life issues, community, economic justice, and the environment and peace. A deep dive into the Gospel of John is also covered.

## SENIORS

### Religion 12 5047 (1.0 Cr.)

This course is offered to all seniors as an introduction to the broader study of religion. The course focuses on the common elements present in most religions as well as an exploration of some of the individual religious traditions of the world, with a comparison of these religions to Roman Catholicism and in particular through the lenses of the Lasallian traditions. Additionally, students will reflect on the meaning of the school's mission in their lives through the SJCI STAR (Senior Talk And Reflection) Project – a capstone project designed to bring a reflective closure to a student's experience at St. Joe's.

## SCIENCE

### Biological Systems 0014 (1.0 Cr.)

This course will focus on connecting biological concepts of all living systems through the study of living organisms and vital functions using human systems as a model. Major topics of study will include matter and energy, structure and function, reproduction and inheritance, and natural selection and evolution. Students will develop critical thinking and analytical skills, and be introduced to the technique of laboratory investigation as a vital source of learning.

### Geology & Climate Science 0024 (1.0 Cr.)

Students in this course will explore Earth and the astronomical entities that surround this great planet, identifying and exploring the processes that have shaped, and continue to shape our planet. Students will delve into oceanic conditions that support life on our fragile planet and analyze both regional and global weather and climatic patterns. Students will also analyze the world regionally - major internal and external events of Earth and the continents, including comparison of natural conditions, human activity, and cultural features. This course will emphasize the use of critical thinking and laboratory skills to gain a better understanding of the world around us.

### Chemistry 0034 (1.0 Cr.)

Students will examine fundamental chemical concepts. Students will be challenged to develop a basic understanding of the interactions of matter both at the macroscopic and particulate levels. Students will be engaged in laboratory work to develop 21st century problem solving and scientific literacy skills. The essential elements of this course will enable students to make informed decisions about relevant scientific issues in their daily lives. This course fosters a desire to further investigate the wonder, excitement, and dynamic nature of science. Topics include atomic structure, bonding,

stoichiometry, gases, thermodynamics, kinetics, equilibrium, acids and bases, redox, and environmental chemistry. This course follows the American Chemical Society's high school curriculum. *Prerequisite: Completion of Structure and Function of Biological Systems or a Grade of 85% on the NYS Living Environment Regents Exam in 8th grade.*

### Honors Chemistry 0035 (1.0 Cr.)

Students will examine conceptual and quantitative foundations of chemistry while being challenged to develop an in depth understanding of the interactions of matter both at the macroscopic and particulate levels. Students will be engaged in laboratory work to develop 21st century problem solving and scientific literacy skills. The essential elements of this course will enable students to make informed decisions about relevant scientific issues in their daily lives. This course fosters a desire to further investigate the wonder, excitement, and dynamic nature of science. Topics include atomic structure, electron configurations and transitions, bonding, stoichiometry, gases, thermodynamics, kinetics, equilibrium, acids and bases, redox, and environmental chemistry. This course follows the American Chemical Society's high school curriculum, but involves a more mathematical approach to chemical principles. Prerequisites: Enrollment by invitation of the Science Department, based upon a student's performance in Structure and Function of Biological Systems. Final course placement will be determined after final exams in June.

### Physics 0044 (1.0 Cr.)

Students will explore physical phenomena at both a quantitative and conceptual level. Topics include Newtonian mechanics, electricity and magnetism, wave phenomena, and modern physics. Students will learn to devise and carry out laboratory experiments in order to deepen their knowledge of these topics. A strong foundation of high school mathematics and science knowledge is assumed; advanced mathematics is not required.

### Astronomy 0054 (1.0 Cr.)

Students in this course will study celestial objects and phenomena that occur outside of the Earth's atmosphere on both a conceptual and quantitative level. Major course topics include stellar and extragalactic astronomy, which will focus on the formation of stars and the stellar life cycle, the origin of elements, as well as the formation of planets and solar systems, the detection and analysis of exoplanets. Students will also learn how astronomical research is conducted and what tools are used by astronomers of the past and present. Prerequisites: Basic understanding of Algebra and Geometry will be assumed. It is recommended that students have taken Geology/Earth Science, Chemistry, and/or Physics before taking this course. This is designed to be a 4th science course and can be taken concurrently with another science course.

## **Introduction to Engineering 0055 (1.0 Cr.)**

Students will explore selected topics in engineering with an emphasis on the engineering design process. Topics include mechanical advantage, mechanisms, fluids, thermodynamics, materials science, electrical systems, and robotics. There is an extensive laboratory component where students apply scientific principles to different design challenges. This class is designed to supplement topics learned in other core science classes. Concurrent enrollment or completion of 3 of the following (Biology, Geology & Climate, Earth Science, Chemistry, Physics, or an AP science course) is advised. A special laboratory fee is charged.

## **Environmental Science 0053 (1.0 Cr.)**

This course is an introduction to environmental science. This is a writing intensive course that examines the environmental impact of population growth on natural resources, mineral and resource extraction, water resource use and water pollution, air pollution and climate change, agriculture, and conventional and sustainable energy supplies. Emphasis is placed on a holistic approach to environmental science using class discussions and case studies to instill the objectives of the course. It is recommended that students have taken Biology and Chemistry before they register for this course. Students in this course will be encouraged to challenge the AP Environmental Science Examination given in May.

## **Forensics: The Science of Crime 0061 (1.0 Cr.)**

Students will explore the fascinating world of Forensic Science that delves into the methods, techniques, and principles used to investigate and solve crimes. Designed to ignite curiosity and critical thinking, this course combines scientific inquiry with real-world application, providing students with a comprehensive understanding of different forensic processes. Students will learn about introductory forensic concepts such as eyewitness testimony, types of evidence, and evidence collection, including hair, DNA fingerprinting, blood evidence, and arson. An emphasis will also be placed on the human body as evidence, as we dive into death, the autopsy, and toxicology. Students will also engage with hands-on activities, case studies, and even a mock crime scene. Prerequisites: Completion of Biological Systems or Freshman Chemistry. Sophomores must take Geology and Climate Science, Chemistry, or Physics in conjunction with this course. Enrollment preference will be given to sophomores.

## **Kinesiology and Exercise Science 0060 (1.0 Cr.)**

This course introduces students to the science of human movement, with a focus on anatomy, biomechanics, exercise physiology, and sports related performance and nutrition. Students will develop a biological understanding of human

training, performance, and recovery during physical activity with an emphasis placed on fitness and health. It is recommended that students have taken Biology and Chemistry before taking this course. This is designed to be a 4th science course and can be taken concurrently with another science course.

## **Advanced Placement Biology 0116 (1.0 Cr.)**

This course is designed to be the equivalent of a college introductory biology course and to prepare the student for the Advanced Placement exam given in May. This course is an in-depth, content intensive study of biological principles which include extensive laboratory investigations. A special laboratory fee is charged. *Prerequisite: 90% or higher in both Biology and Chemistry.*

## **Advanced Placement Chemistry 0126 (1.0 Cr.)**

This is a college level course taught in conjunction with College Board's Advanced Placement program. Students will be required to perform a minimum of twenty college investigations. A special laboratory fee is charged. All students will take the AP Chemistry Examination given in May. *Prerequisites: An average of 93% in both Chemistry and mathematics along with department approval.*

## **Advanced Placement Environmental Science 0130 (1.0 Cr.)**

AP Environmental Science explores the scientific principles behind Earth's systems, focusing on the interrelationships between the land, ocean, and atmosphere, and how human activities impact them. Topics include ecosystems, biodiversity, pollution, climate change, and sustainable solutions through an interdisciplinary approach using biology, chemistry, geology, and geography. All students will take the AP Environmental Examination given in May. *Prerequisites: Successful completion of Biology and Chemistry are recommended, or with departmental approval.*

## **Advanced Placement Physics 0136 (1.0 Cr.)**

AP Physics C: Mechanics is a calculus-based, college-level physics course, appropriate for students planning to specialize or major in one of the physical sciences or engineering. Units covered include the dynamics of motion, statics, harmonic and rotational motion, and gravitation. Students will take the AP Physics C: Mechanics Examination administered in May. *Prerequisites: Mathematical fluency, along with completion or co-enrollment in AP Calculus. Departmental approval is required.*

# SOCIAL STUDIES

## FRESHMEN

### **The American Journey 4014 (1.0 Cr.)**

This course is a survey of the history of the United States. Students will examine and analyze the major events and forces that have shaped our country's history. The course will also address the development of the government and its institutions, from the origins of the nation to the present day. Importantly, the course will develop a student's writing, study, and analytic skills as he begins his high school years. Skill development will be a major part of this course.

### **The American Journey – Honors 4015 (1.0 Cr.)**

This course addresses the same topics and requirements as The American Journey with the addition of greater detail in subject matter and skills taught. The course aims to prepare students for success in Advanced Placement courses (AP World History, AP US History, AP European History) to be taken in future years.

## SOPHOMORES

### **Understanding the World 4024 (1.0 Cr.)**

This course is a survey of world history from ancient times to the present day. Students will examine and analyze the major events and forces that created the modern world. The course will stress study and analytic skills as students examine historical trends and themes across continents and eras.

### **Advanced Placement World History 4026 (1.0 Cr.)**

This class examines all aspects of world history from the Middle Ages to today. This Honors class culminates in the students taking the Advanced Placement World History Examination given in May. The purpose of the course is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Emphasis is placed on analysis and writing. *Prerequisite: Department approval.*

## JUNIORS/SENIORS

### **Introduction to Economics 4044 (.5 Cr.)**

Introduction to Economics examines the major components of America's economic system, combining economic theory and practice to help students learn how to make real-life decisions about employment options, consumer choices, and personal finance. This course involves discussions and examinations of economic theories and their application to policy and its effect on societal well-being. Students will gain a basic understanding of fundamental economic concepts

and learn how to use these concepts to address problems within our society.

### **American Government: Democracy in Action 4054 (.5 Cr.)**

"The Miracle at Philadelphia"! This is the title of one of many books on the drafting of our constitution. How did this foundational document lead to the greatest expansion of civil liberties and economic stability the world has ever seen? We will begin with an examination of the constitutional foundation that has led to this success. This survey of the political process will then explore the role and responsibilities of our branches of government, the electoral process, political beliefs, civil rights and public policy.

### **The American Way of War 4051 (.5 Cr.)**

This seminar style course will explore not only the broader field of proper military history, but the American way of making war. It will explore the different categories of American war (wars of expansion, existential wars, wars of principle), how we raise armies and how we equip them, and how those armies fight. It will also explore how war impacts society and culture on the home front, paying particular attention to how the categories of war affect the home front differently.

### **The Civil War Era 4052 (.5 Cr.)**

This is a survey class on the coming of the war through Reconstruction, roughly covering the years 1845-1865. While it would certainly deal with the military aspects of the war, it is not a military history course. The primary goal will be to understand the multiple meanings of this transformative event in American history. Those meanings can be defined in multiple ways: national, sectional, racial, constitutional, individual, social, intellectual, or moral. The course will examine several broad themes including the crisis of union and disunion in an expanding republic; slavery and race as a national problem and personal experience and the experience of modern, total war for soldiers and society.

### **Criminal Justice Studies 4053 (.5 Cr.)**

This is the ideal course for anyone interested in law enforcement or criminal law. This survey course will examine the nature and foundation of criminal justice in the US, Federal and State Court systems, constitutional rights of the accused, the role of punishment and law enforcement, and the NYS Penal or Criminal Code.

### **US Sports History 4086 (.5 Cr.)**

Sports have played a vital role in American history. They can represent the social, political, and economic conditions of the time. Individual athletes and their respective professional teams have influenced US history

and culture. This course will examine numerous instances where sports and history collide. It will take a look at how sports influences topics such as race, gender, class, and politics.

### **Created History: Alternative American Narratives 4088 (.5 Cr.)**

The American love affair with the movies is a long, intense, and problematic one. Since its inception, cinema has represented, recorded, reimagined, and changed American history. We live in a time when many Americans learn much of their "history" through the movies, so this class will aim to challenge students to question and evaluate their perception of United States history and how that understanding is affected by the manner in which they learn it. We generally think of movies as a diversion from our real lives, but they are also historical documents themselves that allow us to understand the cultural values, beliefs, and anxieties of the times in which they were made. The course starts from the premise that the content in films, then, as with written sources, can and should be critically analyzed for its perspectives, interpretive choices, biases, and reliability. We will examine how well or how poorly major films have portrayed the past and consider possible reasons for that success or failure, but we will also explore how movies actively take part in the production of history by engaging with current and past events. Examples of films that might be screened include *The Best Years of Our Lives*, *M\*A\*S\*H*, *The Molly Maguires*, *Gone with the Wind*, *Glory*, *Birth of a Nation*, *The Crucible*, *Saving Private Ryan*, *Lincoln*, *Mississippi Burning*, *Malcolm X*, *Inherit the Wind*, *Zero Dark Thirty*.

### **Advanced Placement African American Studies 4027 (1.0 Cr.)**

AP African American Studies is an interdisciplinary course that draws from a variety of fields - history, literature, the arts, geography, science - to explore the vital contributions and experiences of African Americans, from ancient African societies to the present. This dynamic and robust course introduces students to the rich history, culture, and literature of African Americans and the larger African diaspora. Students will deepen their understanding of African American life from the past and present through an array of disciplinary perspectives, and apply analysis and research skills as they review primary sources and original artifacts.

### **Advanced Placement American History 4036 (1.0 Cr.)**

The course covers the entire spectrum of American history. Students will learn the skills to analyze material and to deal critically with the problems and events of American History. At the end of the course students will take the College Board AP Examination given in May. *Prerequisite: Placement is based on present teacher recommendation and department approval.*

### **Advanced Placement European History 4056 (1.0 Cr.)**

This course will enable students to understand the principal themes in European history from the fifteenth to the twentieth centuries. The material presented is designed to be both stimulating and challenging. At the end of the course, students will take the College Board AP European examination given in May. *Prerequisite: Placement is based on present teacher recommendation and department approval.*

### **Advanced Placement Macroeconomics 4046 (1.0 Cr.)**

Students enrolled in AP Economics will learn to use graphs, charts, and data to analyze and explain economic concepts at the college level. AP Macroeconomics is concerned with the economic system as a whole, with particular emphasis on the study of national income and price-level determination. Students will become familiar with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students may take one or both sections of AP Economics.

### **Advanced Placement Microeconomics 4047 (1.0 Cr.)**

Students enrolled in AP Economics will learn to use graphs, charts, and data to analyze and explain economic concepts at the college level. AP Microeconomics introduces students to the principles of economics that apply to the functions of individual economic decision-makers. Students will learn about the operation of product and factor markets, distributions of income, market failure, and the role of the government in promoting greater efficiency and equity in the economy. Students may take one or both sections of AP Economics.

### **Advanced Placement U.S. Government and Politics 4066 (1.0 Cr.)**

This course gives students an analytical perspective on government and politics in the U.S. It familiarizes students with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. At the end of the course, students will take the AP exam in U.S. Government and Politics given in May. *Prerequisite: Placement is based on present teacher recommendation and department approval.*

## **VISUAL & PERFORMING ARTS**

### **Band Foundations - Brass and Woodwind 6008 (1.0 Cr.)**

This course is for the beginning student who is interested in learning the trombone, trumpet, flute, clarinet or saxophone. No prior experience is necessary. Certain instruments are furnished for a nominal fee. *Class enrollment is limited.*

## **Band Foundations - Percussion**

### **6014 (1.0 Cr.)**

This course is for the percussion student who has had some previous experience through either a school program or private lessons. Basic snare and reading skills will be developed. Each student must purchase drumsticks, pad, stand, and metronome through the instructor. These will be used for all classes. *Class enrollment is limited.*

## **Strings**

### **6005 (1.0 Cr.)**

This course is for the intermediate or advanced strings player. Standard literature is performed. Attendance at assigned performances, recordings, special events, and related rehearsals is required as part of a student's evaluation. This course will meet on Tuesdays and Thursdays from 7:30 am - 8:15 am. *Prerequisite: Enrollment is for intermediate or advanced players.*

## **Concert Band**

### **6044 (1.0 Cr.)**

This course is for the intermediate or advanced brass and woodwind instrumentalist. Standard concert band literature is performed. Attendance at assigned performances, recordings, special events, and related rehearsals is required as part of a student's evaluation. *Prerequisite: Enrollment is by permission of the instructor.*

## **Percussion Ensemble**

### **6015 (1.0 Cr.)**

This course is for the intermediate or advanced percussionist. Standard concert band literature is performed as well as percussion ensemble literature. Attendance at assigned performances, recordings, special events, and related rehearsals is required as part of a student's evaluation. *Prerequisite: Enrollment is by permission of the instructor.*

## **Combo Ensemble**

### **6068 (1.0 Cr.)**

This course will give experienced instrumental students the opportunity to play in a small jazz ensemble group setting. Students will learn the basics of jazz from reading music/charts, rhythms and improvisation. Performances and concerts in and out of the school are a mandatory part of the course requirement. *Prerequisite: Department approval after audition and participation in Concert Band or Varsity Singers.*

## **Freshmen Singers**

### **6104 (1.0 Cr.)**

Designed for beginning singers, this course introduces fundamental musical elements through the experience of singing. Students will develop vocal technique, music reading skills, score analysis, pitch matching, rhythmic accuracy, and basic harmony. Emphasis is placed on teamwork and supporting classmates' success. The curriculum also includes an introduction to musical

elements, orchestral instruments, and an overview of major historical periods in music. Students will perform in the Christmas Concert, Spring Concert, and two school Masses. *No prior singing experience required.*

## **Glee Club**

### **6114 (1.0 Cr.)**

This intermediate men's choral ensemble performs a diverse repertoire ranging from two- to four-part arrangements. Students will develop proper vocal technique, music reading skills, sight-singing, introductory music theory, score analysis, and harmony. Ensemble members are required to sing at most St. Joe's Masses, as well as the Christmas and Spring concerts. Open to incoming freshmen with prior singing experience. *Prerequisite: Enrollment is by permission of the instructor.*

## **Varsity Singers**

### **6124 (1.0 Cr.)**

This advanced men's choral ensemble focuses on the study and performance of four-part arrangements and solo repertoire. Students are expected to engage in daily score study and demonstrate a high level of commitment. Ensemble members are required to participate in all St. Joe's Masses, concerts, and special events. Occasional afterschool rehearsals are scheduled before major performances. *Prerequisite: Audition is required.*

## **Music Theory**

### **6074 (1.0 Cr.)**

This course explores the technical foundations of music and composition. Students will develop skills in music reading, notation, keys and key signatures, intervals, scales, meters, and chord structures through both written and aural study. The curriculum includes melodic and rhythmic dictation, chord function, and formal analysis, culminating in the analysis and creation of musical compositions. *Prerequisite: Participation in band, strings, or choral music is recommended.*

## **Audio & Video Production**

### **6146 (1.0 Cr.)**

This course explores the essential hardware, software, and technical skills that bring creative ideas to life. Through a hands-on, project-based approach, students will produce audio recordings, podcasts, foley sound effects, and a variety of video projects. Industry-standard applications, including Adobe Audition, Logic Pro, and Final Cut Pro, will be used. *A cellphone with video capabilities is recommended; all other necessary equipment will be provided.*

## **Advanced Acting**

### **6036 (.5 Cr.)**

This junior and senior class is designed to provide the opportunity for more advanced study of the basic techniques, acting styles, and improvisation learned during Introduction to Acting. Workshops, improv games, creative exercises and journaling will help students to continue to develop their natural talents and apply them for possible

college or professional auditions. Students will also have an opportunity to direct a short play utilizing the talents of the Introduction to Acting students at the end of the year using other theatre arts students. This course meets after school and is arranged by the instructor. Grading is based on attendance, leadership, and execution on a more advanced level of the various projects during the year. This course is offered after school on days arranged by the instructor. *Prerequisite: Enrollment is by permission of the instructor.*

### **Public Speaking 12 3104 (.5 Cr.)**

This course provides the opportunity for practical experience in speaking before an audience. By making presentations in the "safe environment" of the classroom with personalized feedback, students will find themselves more confident and better prepared for speaking situations in college, at work, and in the community. Grading is based on frequent oral presentations and participation in class. Speech topics include: sales speech, political speech, eulogy, best man speech, business presentation, oral readings, and coach/ rally speech. Students may take both Public Speaking courses. Completion of a Public Speaking course is a graduation requirement for all students.

### **Studio Art 1 6204 (1.0 Cr.)**

This course introduces students to the basic elements and design principles, while working in a studio atmosphere with a variety of media. Basic drawing methods are also introduced. Good design is stressed in each project, along with proper presentation of finished works. Appreciation of work, past and present is also related to art production.

### **Studio Art 2 6210 (1.0 Cr.)**

This course builds on the basic art elements and principles, while working in a studio atmosphere with a variety of media. More advanced techniques and materials are introduced. Good design is stressed in each project, along with proper presentation of finished works. Appreciation of work, past and present is also related to art production. *Prerequisite: Studio Art 1, grade 85/higher, and/or permission of the instructor.*

### **Studio Art 3 6211 (1.0 Cr.)**

This course continues to build students' mastery of art elements and design principles, while working in a studio atmosphere with a variety of media. Focus becomes more conceptual with student driven themes, subject matter, and representation while mastering materials from Studio 2. *Prerequisite: Studio Art 2, grade 85/higher and/or permission of the instructor.*

### **Studio Art 4 6212 (1.0 Cr.)**

As a culmination of the Studio series, students will get to work with more advanced materials, such as plaster and oil paint, and further express their own voice. Projects will be introduced thematically and students will have the opportunity to come up with their own ideas of representation, how they choose to compile their artwork, and what medium they want to use. Students will be required to submit a final portfolio and artist statement. *Prerequisite: Studio Art 3 with a grade 85/higher.*

### **Advanced Placement Studio Art: Drawing or 2D Design 6236 (1.0 Cr.)**

Students study art styles and techniques at an advanced level to develop a portfolio in three sections: quality, breadth, and concentration. Completion of the portfolio demands self-discipline to apply creative talents to a variety of projects, both assigned and self-structured. College credit through the College Board may be awarded based on the evaluation of the student's portfolio and the college attending. *Prerequisite: Completion of Studio Art 1-3.*

### **Introduction to Photography 6253 (1.0 Cr.)**

This course introduces students to the fundamental techniques and concepts of photography, while also developing technical skills and creative expression. Students will learn how to control exposure, camera modes, and balance the many settings that contribute to a great photograph. The course also includes the study of influential photographers to provide context and inspiration. Students will gain hands-on experience with both mirrorless cameras and mobile photography, and use the Adobe Suite to edit their work. *A cellphone with photo capabilities is recommended; all other necessary equipment will be provided.*

## **VISUAL & PERFORMING ARTS:** non-academic overelectives

The following courses meet outside of the school day and are not included in a student's course load or grade calculations. Students are rated according to an alphabetical grade that appears on report cards and permanent records.

### **Jazz Lab Band 6064 (1.0 Cr.)**

The Jazz Lab Band concentrates on the performance of high quality big band literature. After-school rehearsals and performances are a required element of this course. Dedication to improvement of skills and musical knowledge is essential to participate in Jazz Lab Band. Individual practice outside of rehearsal is required. Students must be participating in a curricular music ensemble to be a part of the Jazz Lab Band. *Permission of the instructor is required.*

### **Swing Choir 6134 (1.0 Cr.)**

This course is a mixed choral group performing numerous concerts throughout the school year. The music literature emphasizes Broadway show tunes, popular music, and light jazz and gospel. Outside working practices and concerts are required. *Prerequisites: Audition required; instructor's permission; co-enrollment in Glee Club or Varsity Singers.*

### **Theater Production 1—Fall Drama 6155 (.5 Cr.)**

This course provides a semester opportunity based on involvement in the Fall Drama Production. Each student involved in the Fall drama as a actor, designer, crew member, and/or stage manager will enroll in this course to provide them academic credit for their involvement. This course meets after school, is co-ed, and the grade is calculated by participation, meeting deadlines, and the SJCI project based assessment guidelines.

### **Theater Production 2—Spring Musical 6156 (.5 Cr.)**

This course provides a semester opportunity based on involvement in the Spring Musical production. Each student involved in the Spring Musical as a actor, designer, crew member, and/or stage manager will enroll in this course to provide them academic credit for their involvement. This course meets after school, is co-ed, and the grade is calculated by participation, meeting deadlines, and the SJCI project based assessment guidelines.

### **Workshops**

The Visual and Performing Arts Department offers a variety of non-graded, non-credit bearing workshops taught by professionals in their fields through an Artists in Residence Program. Highly trained professionals offer these opportunities for the students outside of the school day in a variety of artistic venues including: Strings, Dance, Musical Theater, Graphic Design, Sculpture, Animation, Set Design, and Lighting. Sign-ups for these workshops take place as they are offered. Successful completion of the workshops can be noted on the student's transcript, but grades will not appear on the report card.

## **INDEPENDENT ELECTIVES**

### **Introduction to Accounting 4068 (1.0 Cr.)**

This course is designed to help students discover if they have an interest in and aptitude for accounting as a profession, as well as to build a foundation for the study of accounting at the collegiate level. Students will learn how accounting systems support business operations and

decision-making for individuals, businesses, and organizations. The course will cover the complete accounting cycle, financial transactions, payroll systems, special journals, and accounting for accruals and inventories. Students will be asked to apply generally accepted accounting principles (GAAP) to real-world business scenarios and develop proficiency in preparing and analyzing income statements, balance sheets, and cash flow statements.

### **Advanced Placement Business with Personal Finance 4083 (1.0 Cr.)**

This course introduces students to the foundations of business while developing essential personal finance skills. Topics include entrepreneurship, marketing, finance, accounting, and management through real-world applications and project-based learning. Students also apply national personal finance standards in areas such as budgeting, investing, credit, and long-term financial planning. Emphasis is placed on analysis, communication, and decision-making to prepare for both the AP exam and practical financial literacy. All students will be prepared for and expected to take the AP Business examination in May.

### **Business Studies: Fundamentals of Leadership 4084 (1.0 Cr.)**

This full-year course highlights and strengthens personal character and cognitive skills indispensable for the successful business or organizational leader of the 21st century. Students develop core competencies highly valued in today's rapidly evolving business world including creative thinking, problem solving, and facilitation skills. Throughout the course, students will extract, interpret, and apply theories and evidence from research on topics ranging from innovation, entrepreneurship, and creativity in hands-on, collaborative activities. At the culmination of the course, students will have the ability to assess and improve a team's ability to solve complex challenges and facilitate that process using simple frameworks and a number of cognitive tools.

### **Entrepreneurship 4069 (1.0 Cr.)**

In this project-based course, students will be introduced to and gain practice applying industry leading methods of entrepreneurship. Students will be introduced to the methods and terminology of modern entrepreneurship while honing and developing skills needed for success in their academic and professional lives. These

skills include, but are not limited to: financial and statistical analysis, creative problem solving, networking, positive and productive team collaboration, and perseverance. Students will explore how entrepreneurs identify opportunities, develop innovative ideas, assess risk, and create value in competitive markets. Emphasis is placed on creativity, problem-solving, and informed decision-making. Toward the end of the course, students will be tasked to work in small teams to develop and present an authentic business plan to an audience of SJCI faculty, alumni, entrepreneurs, and industry experts.

### **Introduction to Film 9440 (1.0 Cr.)**

The goal of this class is to help students interpret and reflect on film. It will cover the film process, filmmaking techniques, and how to critically analyze the art form. The class will also delve into the historical, political, psychological, and philosophical aspects of film. Students will explore how history impacted filmmaking and how those films reflect the identity of the time period. They will learn how a film is created (script writing, financing, directing, cinematography, acting, editing, sound, music, special effects, and distribution). *Prerequisite: Students must have an 85% or higher average in English the previous year.*

### **More Than Words: Language and Society 2159 (1.0 Cr.)**

This course is designed for students interested in understanding the origin of human language as well as how human language works. By the end of the course, students will be able to analyze language patterns, understand how language connects to identity and culture, and apply linguistic concepts to everyday communication, media, and contemporary issues.

### **Personal Finance 4067 (1.0 Cr.)**

Managing personal finances is a long-term investment. This course will provide students an overview of managing their money for lifelong financial success. Students will explore essential financial concepts including budgeting, banking, saving, credit and debt management, insurance, taxes, investing, and long-term financial planning. Emphasis is placed on applying financial principles to real-world situations students are likely to encounter after high school. Through project-based learning, simulations, and case studies, students will analyze personal financial choices, evaluate risks and benefits, and develop strategies for managing income and expenses.

### **Psychology: Exploring Human Behavior and the Mind 4074 (1.0 Cr.)**

This is a full-year survey course in general psychology. The purpose of this course is to examine the major areas that are studied and explored by psychologists. Some of the topics that will be examined are: Personality, Mental Illness, Intelligence, Alternate States of Consciousness and Stress.

### **Signs of the Sacred: World Religions & Christian Themes in Storytelling 5051 (1.0 Cr.)**

This full-year elective begins with a deep look at other faith traditions, specifically informed by interreligious dialogue with Hindu, Buddhist, Jewish and Islamic voices. Through the lens of the Lasallian charism, students will reflect deeply on the relationship between these religious traditions and the Church, and guided by Catholic social teaching, develop a capstone project centered on a concern for justice in light of the student's encounter with global religious voices. In the second half of the course, students will explore Catholic theological themes such as creation, sin, incarnation, and redemption through various works of film, literature, music and theater.

### **Yearbook Design 8105 (.5 Cr.)**

Students will learn the aspects of SJCI yearbook design and production. These aspects include, but are not limited to: publication design, photo-journalistic writing, organization skills, and teamwork. Students in this class are responsible for the creation and production of a certain number of assigned page layouts. Page layout assignments include: collecting and taking photographs, conducting interviews/polls, writing captions and stories, organizing the information into well-designed page layouts, meeting deadlines, and editing the pages. Students learn skills that range from using computer software programs such as Adobe Illustrator and Adobe Photoshop to using equipment such as digital cameras. This course will meet once a week after school throughout the school year.