



## SCIENCE & TECHNOLOGY DEPARTMENT

### Science Courses

**Modern Biology** 0014 (1 cr)  
An entry-level course, all first year science students are enrolled in Modern Biology. Students explore fundamental principles of modern biology including bioinformatics, energetics, ecological interactions, human physiology and homeostasis, unity and diversity among living things, and evolution. Students study a wide variety of laboratory techniques including microscopy, chemical analysis, chromatography, and DNA fingerprinting. All students will take the NYS Living Environment Regents Examination.

**Earth Science** 0024 (1 cr)  
This course will follow the NYS Education Department curriculum in Earth Science. Topics include studies in geology, meteorology (weather), and oceanography. Students will be exposed to a variety of laboratory experiences. Students will take the NYS Earth Science Regents Examination.

**Chemistry** 0034 (1 cr)  
This course examines fundamental chemical concepts. Topics include atomic structure, bonding, the periodic table, acids and bases, redox reactions, along with nuclear and organic chemistry. Students are exposed to extensive laboratory investigations. Students will take the NYS Chemistry Regents Examination.

**Honors Chemistry** 0035 (1 cr)  
This course is similar to Regents Chemistry, but involves a more mathematical approach to chemical principles. All students will be exposed to numerous laboratory investigations and will also take the NYS State Chemistry Regents Examination.  
*Prerequisites: Enrollment by invitation of the Science Department. Based upon performance in biology; final placement will be determined after final exams in June*

**Physics** 0044 (1 cr)  
This course utilizes a NYS Regents syllabus which introduces the students to a quantitative and descriptive study of physical phenomena. A good knowledge of high school mathematics is assumed. All students will take the NYS Physics Regents Examination.  
*Prerequisite: Department approval and at least 85% average in chemistry.*

**Electronics** 0054 (1 cr)  
This is a programmed laboratory course for those students with no prior knowledge of electronics. A semester project is required each semester. A special laboratory fee is charged.

**Environmental Science** 0053 (1 cr)  
Environmental Science is the study of the components of our surroundings, both living and nonliving, and the interactions of these components. This course is designed to help students gain a greater understanding of many of the more specific concepts incorporated in this broad definition, including air,

water, soil, geology, human ecology, succession, and our relationships as humans to the components of this environment. The course will emphasize wildlife conservation and management. This is a very dynamic course that will cause you to take emotional stands and inspire debates. If you have prepared yourself properly, you will have the ability to challenge governments and corporations on environmental policies and be an agent for change and a beacon of hope for the health of our planet making the future bright for generations to come. The course will culminate with a final exam and will require a minimum of 10 service hours at a conservation wildlife refuge. *Prerequisites: Successful completion of Biology and Chemistry.*

**Advanced Placement Biology** 0116 (1 cr)  
This is a college level biology course which encompasses an in depth study of major biological concepts. Students will be required to do library research projects and extensive laboratory investigations. All students will take the CEEB Advanced Placement Examination in May. A special laboratory fee is charged.  
*Prerequisites: A grade of 90% in both Regents biology and Regents chemistry, along with department approval.*

**Advanced Placement Chemistry** 0126 (1 cr)  
This is a college level course taught in conjunction with the CEEB Advanced Placement program. Students will be required to perform a minimum of twenty college laboratory investigations. A special laboratory fee is charged. All students will take the AP Chemistry Examination in May.  
*Prerequisites: An average of 93% in both Regents chemistry and mathematics course along with department approval.*

**Advanced Placement Physics** 0136 (1 cr)  
This is a college level course, which is directed toward the Advanced Placement "C" level examination to be given in May. It is calculus based and is much more mathematical than Regents physics. Completion of Regents physics is strongly recommended.  
*Prerequisites: Mathematical fluency, along with completion (or co-enrollment) in calculus. Department approval will also be required.*

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## SCIENCE & TECHNOLOGY DEPARTMENT

### Computer Courses

**Computer Forensics & Security** 8034 (1 cr)  
This class will introduce forensics tools to investigate computers, networks, Internet activities, Email, cell phones and other digital media devices to recover electronic evidence, even if it has been deleted. The student will also learn the court procedures and evidence proposal involved when handling e-crimes. This is a full-year course that meets every day per 6-day cycle.

SCIENCE & TECHNOLOGY DEPARTMENT

Computer Courses

**Computer Hardware & Networking** 8044 (1 cr)  
This course introduces the broad and constantly changing field of local computer networks and hardware. Students will build computers using various parts in many configurations. The student will also learn how local area networks are created and maintained. Many networking topographies will be discusses as well as new wireless technologies. Students will design and build their own wired and wireless networks. Students will be able to challenge the A+ and Net+ Certification Exams at the completion of this course. This is a full-year course that meets every day per 6-day cycle.

**Internet & Web Design** 8054 (1 cr)  
Students will learn how to develop working websites using a variety of different programming languages available today. Students will incorporate various types of media into their websites as well. In addition, students will learn the “behind the scenes” work that is involved with creating a website from scratch. The Adobe Creative Suite will be used frequently throughout the course. This is a full-year course that meets every day per 6-day cycle.

**Computer Aided Design & 3D Modeling** 8064 (1 cr)  
The student will study AutoCAD in both the Architectural and Mechanical disciplines. The course focuses on construction document production using AutoCAD, an overview of Building Code compliance, and an introduction to construction materials and technologies. Students will also build 3D models of their rendering, which will include residential and commercial buildings, sport arenas, bridges, aeronautical, nautical and automotive designs. This is a full-year course that meets every day per 6-day cycle. An additional license fee will apply for individual student use of the software utilized in the course. Software Used: AutoCAD, Revit Architecture, Revit Structure, Revit MEP and Inventor.

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MODERN LANGUAGES DEPARTMENT

Enrollment in Level 1 courses is limited. Incoming freshmen are required to select an alternate Level 1 course.

**French 1** 2014 (1 cr)  
**German 1** 2114 (1 cr)  
**Spanish 1** 2214 (1 cr)  
Level one courses are designed to acquaint the student with a modern foreign 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.  
*Prerequisite: Department approval*

MODERN LANGUAGES DEPARTMENT

**French 2** 2024 (1 cr)  
**German 2** 2124 (1 cr)  
**Spanish 2** 2224 (1 cr)  
**Spanish 2 for Freshman** 2215 (1 cr)  
Level 2 courses focus on elementary conversation, listening comprehension, increased reading, and paragraph writing. There is continued emphasis on communicative proficiency.  
*Prerequisites: Department approval; For incoming freshmen, placement is contingent upon performance on the SJCI languages placement exam.*

**French 3 Regents** 2034 (1 cr)  
**German 3 Regents** 2134 (1 cr)  
**Spanish 3 Regents** 2234 (1 cr)  
These courses emphasize listening comprehension, extended reading, culture, composition, and speaking skills. Students take the NYS Comprehensive Regents Examination.

**French 3 Honors** 2035 (1 cr)  
**German 3 Honors** 2135 (1 cr)  
**Spanish 3 Honors** 2235 (1 cr)  
These courses include more difficult reading, advanced listening comprehension requirements, greater fluency, and free composition. Supplementary materials are used throughout the year. Students take the NYS Comprehensive Regents Examination.  
*Prerequisites: Enrollment is by invitation of the Modern Language Department with final placement based on June grades and department approval.*

**French 4** 2044 (1 cr)  
**German 4** 2144 (1 cr)  
**Spanish 4** 2244 (1 cr)  
These courses are designed to enhance the skill levels through speaking, reading, advanced composition, and research. Attention is also given to culture and civilization.  
*Prerequisites: Department approval.*

**French 4 Honors** 2045 (1 cr)  
**German 4 Honors** 2145 (1 cr)  
**Spanish 4 Honors** 2245 (1 cr)  
These courses follow the level 4 program and are designed for students who intend to proceed to the Advanced Placement level or advanced college level courses. The AP examination will be offered to those seniors who demonstrate the ability and interest.  
*Prerequisite: Enrollment is by invitation of the Modern Language Department with final placement based on June grades and department approval.*

**AP French** 2056 (1 cr)  
**AP German** 2156 (1 cr)  
**AP Spanish** 2256 (1 cr)  
The Advanced Placement program is an intensive study of the foreign language, requiring considerable reading, writing, listening, and speaking. All students complete the AP exam.  
*Prerequisite: Enrollment is by invitation of the Modern Language Department with final placement based on June grades and department approval.*

## MATHEMATICS DEPARTMENT

The NYS Board of Regents requires a scientific and/or graphing scientific calculator, depending on the course. All senior mathematics courses require the purchase and use of a graphing calculator. Honors classes are for students who have demonstrated a high level of achievement in mathematics. Final June exams will reflect NYS Regents guidelines.

**Algebra 1** 1014 (1 cr)  
This course follows NYS guidelines for the new algebra course and includes topics from algebra, geometry, coordinate geometry, probability and statistics.  
*Prerequisites: Department approval.*

**Geometry** 1124 (1 cr)  
This is the second course of the new NYS mathematics curriculum and includes topics from geometry, logic, and related algebra.  
*Prerequisites: Successful completion of Algebra I and a passing grade on the Integrated Algebra Regents Exam.*

**Geometry Honors** 1125 (1 cr)  
This course is an in depth presentation of the second course of the new NYS mathematics curriculum. It includes topics from geometry and additional challenging topics from algebra II.  
*Prerequisites: Enrollment is by invitation of the Mathematics Department with final placement based upon June grades.*

**Intermediate Algebra** 1203 (1 cr)  
This Junior level course focuses on algebra content with less emphasis placed on trigonometry. Students do not have to take the Algebra 2/Trigonometry Regents exam.  
*Prerequisites: Department recommendation.*

**Algebra 2 / Trigonometry** 1213 (1 cr)  
This course is a continuation of the NYS guidelines to meet the learning standards in mathematics, and includes topics from algebra and trigonometry.  
*Prerequisites: Successful completion of Geometry with a minimum grade of 75 or departmental approval and a passing grade on the Geometry Regents Exam.*

**Algebra 2 / Trigonometry Honors** 1225 (1 cr)  
This course is a continuation of the NYS guidelines to meet the learning standards in mathematics, and will include additional advanced topics.  
*Prerequisites: Enrollment is by invitation of the Mathematics Department with final placement based upon June grades; department approval.*

### SENIORS

**Introduction to College Algebra** 1234 (1 cr)  
This course is designed for students who wish to continue building their algebra skills in preparation for college-level math. Topics include practical applications in pre-calculus, economics, and engineering.  
*Prerequisites: Successful completion of Intermediate Algebra with a minimum final grade, in June, of 80 and department approval.*

**Pre-calculus** 1304 (1 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 2/Trig, in June, with a minimum final grade of 75, a passing grade on the Regents Exam and department recommendation.*

**Pre-calculus Honors** 1305 (1 cr)  
This course is designed to prepare students for AP Calculus in senior year. Topics will include function analysis, complex number applications, polar coordinates, and sequences and series; all topics will be taught using graphical, numerical, and algebraic approaches. *Prerequisites: Enrollment is by invitation of the Mathematics Department with final placement based upon June grades.*

**Advanced Topics In Mathematics** 1315 (1 cr)  
This course is designed to provide accelerated students the opportunity to continue their study of mathematics and will include additional topics from pre-calculus and calculus.  
*Prerequisites: Successful completion of Pre-calc or Pre-calc-H with a minimum final grade of 80 and department approval.*

**Advanced Placement Calculus** 1316 (1 cr)  
This is a college level course offered in conjunction with the CEEB. Topics will include 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. This course is demanding, requiring a great deal of work and study outside the classroom.  
*Prerequisites: Enrollment is by invitation of the Mathematics Department with final placement based upon June grades.*

**Introduction to Statistics** 1504 (1/2 cr)  
This course is designed to give the students a fundamental understanding of the elements of data display and analysis, experimental design, and regression analysis. Designed as a primer in statistics, the course will expose students to statistical applications for use in college-level business, natural sciences, and social science courses. *Prerequisite: Mathematics Department permission.*

**Advanced Placement Statistics** 1506 (1 cr)  
This course is designed to give the student 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 Department permission.*

**Gifted Math Program** 1405/1406 (1 cr)  
St. Joseph's Collegiate Institute participates in the Gifted Mathematics Program offered at the State University of New York at Buffalo.

SOCIAL STUDIES DEPARTMENT

FRESHMEN

**Development of World Civilizations – The Ancient World**  
4013 (1 cr)

This is a required course for all freshmen. It is based on the NYS Regents Curriculum. It features a survey of the culture and history of Africa, Asia, China, Japan and Russia. The course allows for skill development in areas critical to social studies.

**Advanced Placement World History I** 4016 (1 cr)

This honors class is the first part of a two-year program that culminates in students taking the Advanced Placement World History examination in May of sophomore year. The purpose of the course is to develop 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.*

SOPHOMORES

**Development of World Civilizations – The Modern Era**  
4023 (1 cr)

This is a required course for all sophomores. The course completes the Global History sequence. The areas of Western Europe, Eastern Europe, the Middle East and Latin America will be studied. All sophomores are required to take the NYS Regents Examination in Global History.

**Advanced Placement World History II** 4026 (1 cr)

This class examines all aspects of world history from the ancient world to today. This honors class culminates in the student's taking the Advanced Placement World History examination in May of his sophomore year. The purpose of the course is to develop 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

**American History - Democracy: The American Experiment** 4034 (1 cr)

This course follows the NYS curriculum for American History and Government Regents course. It is required of all juniors not accelerated to A.P. US History. The NYS Regents Examination in American History and Government is required.

SOCIAL STUDIES DEPARTMENT

**Advanced Placement American History** 4036 (1 cr)

This is a college level course open to juniors. 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, the student will take the CEEB A.P. Examination and the NYS Regents Examination in American History. *Prerequisite: Placement is based on present teacher recommendation and Department approval.*

SENIORS

**Economics: American Capitalism in Action**  
4044 (1/2 cr)

**American Government: Democracy in Action**  
4054 (1/2 cr)

This course, required of all seniors, is a full-year program developing two major components: economics and government. The economics section examines the major components of America's economic system, while the government section analyzes the democratic system and the individual's role in that system.

**Advanced Placement U.S. Government and Politics**  
4066 (1 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 CEEB A.P. Examination. *Prerequisite: Placement is based on present teacher recommendation and Department approval.*

**Advanced Placement European History** 4056 (1 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 CEEB A.P. Examination.

*Prerequisite: Placement is based on present teacher recommendation and Department approval.*

**Psychology: Exploring Human Behavior and the Mind**  
4074 (1 cr)

This is a full year course that presents the student with a survey of the major areas that psychologists study. The objective of this course is to understand more fully human behavior and mental processes.

## ENGLISH DEPARTMENT

### FRESHMEN

**Introduction to Literary Form** 3004 (1 cr)  
This is the usual course for freshmen. It stresses the importance of reading good literature and developing writing skills through frequent essays and other composition assignments. 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.

**Introduction to Literary Form Honors** 3005 (1 cr)  
Designed for students who are good writers and enjoy reading, this challenging course examines literature in greater depth than the regular freshman course, adding classics by authors such as Hemingway, Stevenson, Sandburg, and Arthur Miller. The composition component of the course includes analytical papers, opinion responses, and creative writing.  
*Prerequisites: Department approval and score above the 90 percentile on the entrance test in the verbal, reading and language sub-tests. Superior achievement in middle school English courses.*

### SOPHOMORES

**World Masterpieces** 3024 (1 cr)  
This course, offered in the sophomore year, is designed to expand students' cultural awareness and help create global citizens through the close examination of works of great 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 throughout history and be encouraged to meet these new perspectives with tolerance and an open mind. Readings will come from the masterworks of authors like Homer, Dante Alighieri, Shakespeare, Orwell, Camus, Voltaire, Calvino, and Beah. Each major work is supplemented with poetry, short stories, essays, and articles. Students will continue to develop their writing skills with emphasis on formulating a clear thesis, using supportive evidence, and developing clarity of expression.

**World Masterpieces Honors** 3025 (1 cr)  
The honors course in World Literature differs from the regular class in two ways. Higher standards in written work are expected, and the reading load is significantly greater, usually accounting for three works per semester not covered in regular sections. Typical supplements have included works by Salman Rushdie, Franz Kafka, and Edwidge Danticat.  
*Prerequisite: Freshman year English teachers will recommend students who may select this course.*

## ENGLISH DEPARTMENT

### JUNIORS

**Major British Writers** 3034 (1 cr)  
This course covers many of the great authors in English Literature — poets, novelists, and playwrights — from the mid-16th to the mid-20th century. The fall semester typically focuses on Shakespeare's plays and sonnets, the satire of Jonathan Swift, and Romantic poets such as Blake, Wordsworth, and Keats. The spring semester shifts the emphasis to the Victorian Period and the fall of the British Empire. Students read several great Victorian and early 20th century novels by authors such as Dickens and Coetzee, and short stories and poetry by masters including Joyce, Eliot, and Yeats. Students' writing will continue to be developed through journals and formal essays. All students take the NYS English Regents Examination.

**Major British Writers Honors** 3035 (1 cr)  
The honors course in British literature differs from the regular class in two ways. Higher standards in written work are expected, and the reading load is significantly greater, usually accounting for three works per semester not covered in regular sections. Typical supplements have included titles such as *Paradise Lost*, *Pride and Prejudice*, *Robinson Crusoe*, and *Heart of Darkness*. All students take the NYS English Regents Examination. *Prerequisite: Sophomore year English teachers will recommend students who may select this course.*

### SENIORS

**Major American Writers** 3044 (1 cr)  
The course attempts to trace the development of the American character from our Puritan roots to our contemporary sensibilities. The first part of the course develops an understanding of the American character through thinkers like John Winthrop, Ben Franklin, and Ralph Waldo Emerson. The second part of the course discovers these American sensibilities as embodied through novelists like Mark Twain, F. Scott Fitzgerald, and Alice Walker, poets like Walt Whitman and Langston Hughes, and playwrights like Arthur Miller. The course also places heavy emphasis on developing skills as a critical thinker and writer, especially as these apply to writing critical arguments at the college level.

**Advanced Placement English** 3046 (1 cr)  
The AP English course is offered in cooperation with the College Board's Advanced Placement program, and all students who take the course must also take the national exam in May. The course stresses reading poetry, fiction, and drama in great detail to better observe how literary artists use language to create meaning. Major works typically include titles like *Jane Eyre*, *King Lear*, *Moby Dick*, *The Great Gatsby*, and *Death of a Salesman*. 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 St. Joe's is especially structured to make students more disciplined and precise writers, through approximately weekly [short] written assignments, and frequent exercises in revision. *Prerequisite: Junior year English teachers will recommend students who may select this course.*

RELIGION DEPARTMENT

**Encountering God** 5004 (1/2 cr)

This course offered to freshmen focuses on relationships – primarily on the relationship one has with God, Self and Others. This course also includes an introduction to the Lasallian learning community and the tradition of which St. Joe’s is a part.

*The Living Word of God*

This course provides an introduction to the Sacred Scripture as God’s communication of God’s plan to the world (revelation). In this course the students will encounter the living word of God through coming to know the people of salvation history – ultimately Jesus Christ as God’s revelation.

*God’s Visible Sign of Love*

This course leads the student to a deeper understanding of God’s revelation through the incarnate Jesus Christ. The course allows the student to begin understanding discipleship as the appropriate response to God’s love. Coming to know God’s love through Jesus Christ, the student learns begins to see who he is called to be.

**Promise and Fulfillment** 5024 (1/2 cr)

This course offered to sophomores focuses on the Bible.

*The Old Testament*

This course is a “journey” through the Old Testament where the students meet the people of salvation history, including the early leaders of Israel; the judges, kings and the prophets. Revelation, both Divine and natural, is explored as are inspiration, interpretation and exegesis.

*The New Testament*

This course continue the journey with an in-depth study of the God News of Jesus Christ found in the Gospels, Acts of the Apostles, Letters and the book of Revelation. By exploring the challenges faced by the first disciples and the early Church, the student learns of the challenges faced by the believer and the Church today.

**The “Good” Life** 5034 (1/2 cr)

This course offered to juniors focuses on morality. Offering a basis in Scripture, the Tradition of the Church and a well formed conscience, the student delves into the individual moral challenge a believer faces each day, the issues faced by contemporary society and our responsibility for each other on a global level.

**Introduction to Religious Studies** 5046 (1/2 cr)

This college level course is offered to all seniors and is an introduction to the study of religion. The course focuses on the *common elements* [ritual, ethics, view of God, view of humanity, the afterlife, the origins of things, sacred texts, the human problem, evil] present in most religions as well as an exploration of some of the individual *religious traditions* [Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam] of the world; with a comparison of these religions to Roman Catholicism and in particular through the lenses of the Lasallian and Jesuit traditions.

Students are offered the opportunity to earn 3 college credit hours through the Department of Religious Studies and Theology of Canisius College by application at the beginning of the year and upon successful completion of the course of studies. The Canisius College Course Brochure titles this course RST 101- Introduction to Religious Studies.

Upon graduation, the student requests a transcript from Canisius College to be sent to the college he will be attending. There is an extra fee to take this course for college credit.

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PHYSICAL EDUCATION / HEALTH DEPARTMENT

FRESHMEN / SOPHOMORES

**Physical Education A** 7100 (1/4 cr)

**Physical Education B** 7200 (1/4 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 waffle-ball. Game concepts and strategies are introduced and reinforced. Throughout the course, an emphasis is placed on improving individual levels of physical fitness and students are introduced 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

JUNIORS / SENIORS

**Physical Education C** 7300 (1/4 cr)

**Physical Education D** 7400 (1/4 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.

**Wellness and Exercise:** 7501 (1/4 cr)

This class is designed for juniors and seniors who are interested in strength and conditioning, health, physical fitness and nutrition. This class will meet twice a cycle and will be based on students getting the opportunity for personal attention and knowledge to set and achieve individualized fitness goals. They will learn advanced concepts and techniques related to the health and sport-related components of physical fitness. These techniques will include but not be limited to resistance training, cardiovascular endurance, muscular power, endurance and strength, agility, speed, flexibility and balance. Proper nutrition will also be an emphasis of this class.

**Health** 7000 (1/2 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 NYS.

INDEPENDENT ELECTIVES

**Freshman Seminar** 3004S/3005S  
This course will assist all freshmen by providing them with valuable educational and life skills that will help ease the transition from middle school to high school, as well as orient each to the specific culture of St. Joseph’s Collegiate Institute. Topics discussed will include, but are not limited to, study skills, cultural awareness, adolescent socialization issues, appropriate social/business etiquette to prepare for success in high school, college, and career, leadership skills, specific subject area topics, and relevant computer skills as identified by members of the staff. This class will meet once per cycle for the full school year with instruction by a team of faculty/staff to include members of the counseling staff, administration, and computer technology staff.

**Public Speaking** 3104 (1/2 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 should find themselves more confident and better prepared for speaking situations in college, at work, and in the community. Frequent oral presentations are required and will range from topics as simple as “Show and Tell” to the use of more involved visual aids and presentation software. Enrollment is limited.

**Journalism** 8104 (1/2 cr)  
This course is for you if you are interested in learning more about how magazines, TV, and newspapers work to report the news. You will also regularly gain experience doing the kinds of writing assignments that reporters do.

**Business in the 21<sup>st</sup> Century: American Finance in Action** 4084 (1 cr)  
This full year course is designed to cover the characteristics and skills needed to be a successful entrepreneur. Students will be brought through the processes of starting and developing a business or practice, develop a business plan to include marketing, management, finance and operating components of a business.  
*Prerequisite: Instructor's permission. Class size is limited.*

**Graphic Design Layout** 6245 (1/2 cr)  
This course will be an in-depth exploration of how to use a computer to layout publications that include graphics (such as magazines, books, newsletters, brochures, advertisements, resumes, etc). Students will learn to use industry-standard software, Adobe InDesign, which allows for the placement of type and graphics in a variety of formats. This class combines design and computer skills. Students will be required to document completed hours in self-directed & independent graphics projects in the imaging lab.  
*Prerequisite: An interest in art, computers and art instructor's permission.*

INDEPENDENT ELECTIVES

**Yearbook Design:** 8105 (1/2 cr)  
Students will learn the aspects of SJCI yearbook design and production. These aspects include, but are not limited to, publication design, photojournalistic 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 in to 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.

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DEPARTMENT OF VISUAL & PERFORMING ARTS

FRESHMEN

**Freshmen Singers** 6104 (1/2 cr)  
This course intended for the beginning singer is a survey of musical elements through the experience of singing and listening. Attention is paid to reading music, learning to match pitch, and reading simple rhythms.

**Arts Appreciation** 6144 (1/2 cr)  
This team-taught course is a comprehensive introduction to music and the visual arts. Students study the basic elements of each and participate in creative exercises to develop appreciation and understanding of art and music, past and present.

**Freshmen Band (Brass)** 6004 (1/2 cr)  
This course is for the beginning student who is interested in learning the trombone, trumpet, French horn, or other brass instrument. No prior experience is necessary. Certain instruments are furnished for a nominal fee. Class enrollment is limited.

**Freshmen Band (Percussion)** 6014 (1/2 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.

**Freshmen Band (Woodwind)** 6024 (1/2 cr)  
This course is for the beginning student who is interested in learning the clarinet, saxophone, flute, or other woodwind instrument. No prior experience is necessary. Certain instruments are furnished for a nominal fee. Class enrollment is limited.

DEPARTMENT OF VISUAL & PERFORMING ARTS

UPPERCLASSMEN

**Introduction to Theatre** 6154 (1/2 cr)  
This is a comprehensive introduction to the theatre. Students study basic elements and participate in interactive creative exercises to develop an appreciation and understanding of theatre. This course is required of all sophomores who have not taken or who are not enrolled in Concert Band, Glee Club, or Studio in Art.

**Concert Band** 6044 (1 cr)  
This course is for the intermediate or advanced brass, woodwind, and percussion instrumentalist. Standard concert band literature is performed. Attendance at assigned performances, recordings, special events, & related rehearsals is required as part of a student's evaluation. Enrollment is by audition or permission of the instructor.

**Percussion Class** 6034 (1/2 cr)  
Sophomore through seniors may take this course. This course is for the percussionist with previous experience. Students must have had a minimum of two years in a school instrumental program or two years of private study. Students will do ensemble work and develop skills on many percussion and mallet instruments. They will also develop skills for concert band. Class enrollment is limited. Attendance at assigned performances, recordings, special events, & related rehearsals is required as part of a student's evaluation.  
*Prerequisite: Permission of instructor.*

**Glee Club** 6114 (1 cr)  
This course is a two-four part men's choral group. Sight-reading and elementary music theory are presented in addition to choral performances. Concerts, public performances, and required special rehearsals are required of each student (although usually limited to the two departmental concerts.) Students participate in all St. Joe's liturgies, including the Sunday Family Masses and special liturgies throughout the school year. Admission is open to incoming freshmen according to experience.  
*Prerequisite: Enrollment is by permission of the instructor.*

**Varsity Singers** 6124 (1 cr)  
This ensemble explores and studies three and four part men's choral arrangements, as well as solo singing experience. The pace is more advanced than Glee Club. Students are expected to study scores on a daily basis, and a serious extended commitment is required of all students. Ensemble members are required to participate in all SJCI liturgies, departmental concerts, other concert events, and Sunday Masses at SJCI and at various parishes in the Diocese of Buffalo. Members will also participate in Glee Club as time permits. Occasional after-school rehearsals are required.  
*Prerequisite: Enrollment is by permission of the director.*

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**Music Theory** 6074 (1 cr)  
This course is a study of the technical aspects of music and music composition. Content includes sight-reading, notation, scales, meters, chord structure, (both written and aural) and the analysis and creation of musical compositions. Students will complete exercises in melodic dictation, chord function, rhythmic dictation, and formal analysis. Students should be able to play a musical instrument.  
*Prerequisite: Department approval.*

**Studio in Art** 6204 ((1 cr)  
This course introduces students to the basic art elements and design principles, while working in a studio atmosphere with a variety of media. Good design is stressed in each project, along with the proper presentation of finished works. Appreciation of work, past and present is also related to art production.  
*Prerequisite: Approval of instructor for all levels and portfolio for freshman only.*

**Drawing and Painting** 6214 (1 cr)  
This course applies art elements and design principles learned in Studio Art to drawing and painting projects using a wide variety of media and techniques. Students create still-lives, figure drawings, portraits, landscapes, and expressive works while being encouraged to develop their own styles presented in portfolio form.  
*Prerequisite: Completion of Studio Art and instructor*

**Advanced Placement Studio in Art / Drawing Portfolio** 6236 (1 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 CEEB may be awarded based on the evaluation of the student's portfolio and the college to be attended.  
*Prerequisite: Completion of Drawing & Painting, a regents commencement level portfolio, and instructor approval.*

**Graphic Arts** 6224 (1 cr)  
Working in a studio setting, students learn various aspects of advertising, graphic design, illustration, packaging, copy placement and computer applications. Art elements and design principles are used by the students while they work on projects designed to mirror the client artist relationship.  
*Prerequisite: Completion of Drawing & Painting and instructor approval.*

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**Independent Sculpture** 6234 (1/2 cr)

Students apply their knowledge of art and design to three-dimensional media. Students will create in a self-directed format using both additive and subtractive techniques with plaster, wood, fibers, etc.

*Prerequisite: Completion of Drawing & Painting and instructor approval.*

**Introduction to Photography** 6253 (1/2 cr)

Taught by a professional photographer, this course will cover basic photography principles of composition, lighting, exposure, aperture, and depth of field using the students' digital or 35mm cameras and classroom digital cameras. All images will be digitized and students will learn to manipulate and print using Adobe Photoshop. A set number of hours working in the digital photo lab outside of class time is required as part of each student's evaluation. The course will meet three times a cycle for the full year.

*Prerequisite: Permission of department chair. It is preferable that students have their own digital camera.*

**Digital Video Arts** 6264 (1/2 cr)

This course will explore all aspects of digital video production including development of storyboard, use of various camera angles, how to shoot and edit films for creative story telling, journalism or training, as well as how to upload for DVD or internet presentation. All work will be done on Macintosh computers using state-of-the-art software. Some video cameras are available for student use. Content expression and solid design will be stressed as well as mastery of program techniques. A set number of hours working in the digital editing lab outside of class time is required as part of each student's evaluation. This course will meet three times per cycle for the full year. *Prerequisite: Permission of department chair. It is helpful if students have access to their own digital video camera.*

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DEPARTMENT OF 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.

**Applied Voice** 6324 (1/2 cr)

This course is for advanced singers interested in the study of classical literature and vocal techniques as needed for college entrance auditions as well as general performance.

*Prerequisite: Instructor's approval.*

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NON-ACADEMIC OVERELECTIVES

**Jazz Lab Band** 6064 (1 cr)

This course is for the advanced instrumental music student who is interested in performing in the jazz idiom. Students study standard big band jazz literature and improvisation. Outside working practices and concerts are required.

*Prerequisites: Audition required; instructor's permission; co-enrollment in Concert Band.*

**Swing Choir** 6134 (1 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. Outside working practices and concerts are required.

*Prerequisites: Audition required; instructor's permission; co-enrollment in Glee Club.*

**Guitar** 6054 (1/2 cr)

This is an intensive study about the mechanics of the guitar. Technical instruction and music theory will be provided. Students examine the history of the instrument and its most influential players. Enrollment is open to all skill levels.

*Prerequisite: Instructor's approval.*

**Advanced Drama** 6304 (1/2 cr)

This course meets outside of the regular school day. It is an introduction to the art of acting, using an eclectic approach to exploring acting styles and improvisation. Acting games, creative exercises and journaling will help students develop natural talents and apply them to presentation and communication skills in daily life. Grading is based on attendance and participation in semester-end theater performances. *Prerequisite: Instructor's approval.*

**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.