

# GENERAL INFORMATION 2024-2025

This Course Offering Booklet has been compiled to inform you of the courses offered at St. John the Baptist Diocesan High School. By reading the course descriptions, you will be better informed to make prudent decisions. Teachers, counselors and administrators are available to assist in the course selection process. **Students may not request a specific teacher, request to change a teacher, or request to take a class at a specific time of day.**

**HONORS COURSES** - a minimum final average of 85% in previous honors classes in that discipline or a 93% final average in a regents-level class in the same discipline is required. The Regents or final exam in that discipline will also be considered. Studio Art Honors is the exception to this rule. Admission to Studio Art Honors is based on a portfolio submitted to the Art Department Chairperson during freshman year.

**ADVANCED PLACEMENT COURSES** - a minimum final average of 90% in previous honors classes or, at least 95% final average in a *Regents* level class in the same discipline. The Regents or final exam in that discipline will also be considered. **AP Capstone Courses will use English grades for eligibility. All students are required to take the AP Exam and pay the exam fee for all AP courses.**

**ELECTIVE COURSES** - Elective courses are scheduled after required courses. When choosing elective courses, remember to select your alternate choices, wisely. You will be automatically scheduled for your alternate course if your 1<sup>ST</sup> choice is unavailable.

**COMPUTER WAIVER** - Students in the *Performing Arts Program* can request a waiver, to postpone the required computer course. The waiver is issued for **one year only**. Submit the request, in writing, to your counselor by June 30<sup>th</sup>.

**LANGUAGE WAIVER** - Students who successfully complete 3 years of a *World Language*, culminating in an approved comprehensive exam at the end of 10<sup>TH</sup> grade, may request a waiver for the 3<sup>RD</sup> year of language at St. John's in order to take another class. Submit the request, in writing, to your Counselor by June 30<sup>th</sup>.

**LUNCH WAIVER** - Students are scheduled for a lunch period, every day. **Seniors** can request a waiver to drop lunch to add an additional class. **Juniors** taking a **double period Art** class or two **Sciences** may waive lunch. They are allowed to eat lunch in class. Students who must have lunch at specific time for medical reasons must submit a request, in writing, to your Counselor by June 30<sup>th</sup>. ***A medical note from a doctor must accompany the request.***

**AFTER SCHOOL COURSES/ACTIVITY CONFLICTS** - ***Jazz/Chamber/Percussion Ensemble*** meets after school on alternating days. Attendance is a requirement for course credit and takes precedence over co-curricular activities or athletics. Other ***Performing Arts Ensemble*** rehearsals are also required for class credit. To encourage students to participate in other clubs or sports activities, after school time is shared with the *Performing Arts Dept.* Athletes are to report to rehearsals in their practice gear for the first hour and then proceed to their sport. Only in the case of away games/scrimmages/play-offs do they have permission to be excused from class/rehearsal.

## **NCAA ELIGIBILITY:**

Those students who are planning to participate in athletics in college for a Division I or Division II school must qualify academically according to a formula designed by the *NCAA*. It includes only grades for specific core courses identified by the *NCAA* in combination with your *SAT/ACT* grades. It is very important for students interested in participating in college athletics to meet with their counselor during advisement periods and inform them that it is possible they will be applying for “*clearance*” to be eligible in college to play sports and/or receive an athletic scholarship. For more details related to *NCAA* clearance visit *NCAAClearinghouse.net*. Only certain courses are accepted by the *NCAA*. These courses are indicated with the following notation: (for more course information see the last page in this booklet).

**Asterisk (\*)** after the title of the course indicates a course which has been approved by the *NCAA Initial-Eligibility Clearinghouse* for use in establishing the certification status of student-athletes from St. John's.

**Plus (+)** after the title indicates a course that is in the process of being approved by the *NCAA*

**No symbol** after the title indicates that the *NCAA* **will not** use the course as part of their calculation

Remember: the **regular school day** consists of eight academic periods and a lunch period. Students are expected to be in school for the **entire day**; therefore, they should **not** make any outside commitments, including employment, which will prevent them from fulfilling this school obligation.

## **STUDENTS WITH SPECIAL EDUCATIONAL NEEDS**

As a private institution, St. John's **does not** hold hearings, write, or issue a *504-plan* document, an *Individual Education Plan* (IEP) document, or directly provide any of these services.

## **STUDENTS WITH AN INDIVIDUAL EDUCATION PLAN (IEP):**

Education Law section **3602-c** establishes requirements relating to the provision of special education to students with disabilities enrolled in nonpublic school by their parents. It states that students with disabilities placed by their parents in a nonpublic school are entitled to receive special education services in accordance with an *Individual Education Service Program (IESP)* from the public school district in which the nonpublic school is located (***West Islip***), while they receive general education from the nonpublic school.

Parents **must** request special education services, ***in writing***, to the West Islip School District by **June 1<sup>st</sup>** preceding the school year for which the request for services is made.

**Please Note:** Acceptable accommodations are limited to Resource Room (one period per day/ 5:1 ratio) and /or extended testing time.

## **STUDENTS WITH A 504 PLAN:**

St. John's accepts students with a *504 Plan* document; approved accommodations are limited to extended testing time.

## COURSE SELECTION SCHEDULE

**COURSES ARE NOT OFFERED ON A “TRIAL” BASIS.** Choices should be made carefully, with awareness of prerequisites and course content, as well as student needs and abilities. Course descriptions indicate that some courses are more demanding than others; usually these courses are honors or advanced level courses. Since the guidelines and prerequisites are included in this booklet, **you are responsible for the classes you choose.** Consult with teachers and counselors **before** committing yourself to a particular course. Students are not permitted to audit classes.

### **BEFORE MAKING CHOICES:**

1. **Review** the course descriptions carefully with your parents.
2. **Meet** with your counselor to be sure you meet the requirements for the course, as well as State and graduation requirements.
3. **Make sure** you have selected the courses you need for graduation. This is particularly important for Juniors planning for Senior year.
4. **Anticipate** the requirements of the college to which you are applying.
5. **Return** the Course Selection sheet with parental signature along with your non-refundable student fee for the following school year.

The amount of the fee will vary from grade to grade. It will be listed on the Course Selection sheet.

Please note: Registration for courses is based upon academic projection. If, at the completion of the school year, a student does not meet the criteria for a course, the course will be dropped from the schedule and the student will be placed in the appropriate level. All courses are contingent upon registration. Administration reserves the right to cancel courses for any given year.

### **February**

- Review the Course Booklet.
- Student and counselor meetings. (grades 9-10)
- Student/Parent/Counselor meetings. (grade 11)

### **March**

- All Course Selection Sheets completed with the counselor, signed by the parent, and returned to the Counseling Office, accompanied by the non-refundable *Student Fee* for the following year.
- Continue Student/Parent/Teacher Meetings.

### **April**

- Verification of course selection will be mailed to Parents.
- A copy of the verification must be signed and returned in order to guarantee that the student will receive a schedule in August.
- Scheduling decisions are considered complete at this time.

### **May - August**

- In August students will be mailed a copy of the 1st & 2nd semester schedule, for review. Parents may request a change in schedule by notifying the student's counselor in writing. For any request to change a **COURSE**, a change fee of **\$150.00** must accompany the request. St John's cannot accommodate a request to change a **SECTION**.

### **Requests are not guaranteed.**

Changes will be made at the discretion of the Administration Committee on Academics and are based on availability. **THE LAST DAY FOR REQUESTING A CHANGE IS AUGUST 31<sup>ST</sup>.**

## September

- As of **September 1<sup>st</sup>**, schedule changes will be made only if:
  - A course is no longer offered
  - A computer or clerical error occurs

**COURSE WITHDRAWAL:** The *School Administration Committee on Academics* has the sole authority to make the decision on any request for schedule changes. Withdrawal from a course in progress may result in a withdrawal failing grade.



## GRADUATION REQUIREMENTS

All students must complete a minimum of 29 units at SJB to graduate.

If any required high school unit is earned in 8th grade, an additional elective must be taken at St. John's.

### COURSE REQUIREMENTS FOR EACH GRADE LEVEL

#### **Grade 9 (7.5 units)**

ENGLISH  
MATHEMATICS  
PHYSICAL EDUCATION  
RELIGIOUS STUDIES  
SCIENCE  
SOCIAL STUDIES  
WORLD LANGUAGE  
COMPUTER/HEALTH  
OR PERFORMING ARTS

#### **Grade 10 (7.5 units)**

ENGLISH  
MATHEMATICS  
PHYSICAL EDUCATION  
RELIGIOUS STUDIES  
SCIENCE  
SOCIAL STUDIES  
WORLD LANGUAGE  
ART/PERFORMING ARTS

#### **Grade 11 (7.5 units)**

ENGLISH  
MATHEMATICS  
PHYSICAL EDUCATION  
RELIGIOUS STUDIES  
SCIENCE  
SOCIAL STUDIES  
WORLD LANGUAGE  
ADDITIONAL UNITS  
IN ELECTIVES

#### **Grade 12 (7 units)**

ENGLISH  
PHYSICAL EDUCATION  
RELIGIOUS STUDIES  
SOCIAL STUDIES  
ADDITIONAL UNITS  
IN ELECTIVES



## DIPLOMA REQUIREMENTS

### ADVANCED DESIGNATION REGENTS DIPLOMA

This diploma will be awarded to any graduating senior who has met the following criteria:

- A passing score of 65 and above in the following New York State Regents examinations:
  - ENGLISH
  - GLOBAL HISTORY
  - TWO SCIENCE EXAMS
  - U.S. HISTORY & GOVERNMENT
  - MATHEMATICS - Students must achieve a passing score of 65 in the following exams: Common Core Algebra I, Common Core Geometry, and Common Core Algebra II.
  - WORLD LANGUAGE - passing the Checkpoint B exam. (Students acquiring 5 units of credit in Art, Music, or Technology may be exempt)

### REGENTS DIPLOMA

This diploma will be awarded to any graduating senior who has achieved a passing score of 65 and above in the following New York State Regents examinations:

- ENGLISH/GLOBAL HISTORY/U.S. HISTORY/MATHEMATICS/SCIENCE

## SUMMER SCHOOL

Before planning family summer vacations please consider that no student may return in September with any failures from the previous school year. Students who fail **two or more** subjects may jeopardize continuance at St. John's. Therefore,

- Summer school attendance is mandatory.
- Any student who fails a *New York State Regents Examination* in June must retake it in August, or at the next available date that the test is given by the State.
- If neither the home school district nor St. John's offer the failed course in summer school, the student must notify the *Counseling Department*, in writing, by **June 30<sup>th</sup>** to request an exemption.
- Final decision is at the discretion of the Administration.

## SCHOLARSHIPS

### **Incoming Freshman and current scholarship students:**

- **Distinguished Scholar Award**
  - Must be enrolled in all honors level courses or above
  - Must maintain a weighted average of 95% or higher in 9<sup>th</sup> grade
  - Must maintain a weighted average of 100% or higher in 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade
  - Must participate in one extra-curricular activity of sport
- **Scholar Award**
  - Must enroll in at least two honors level courses or above
  - Must maintain a weighted average of 95% or higher in 9<sup>th</sup> grade
  - Must maintain a weighted average of 100% or higher in 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade
  - Must participate in one extra-curricular activity of sport

### **Upperclassmen and transfer students without a current scholarship:**

- A **scholarship** may also be awarded for the following school year to any student who attains a final GPA of 100 or more (Summa Cum Laude status). The amount of the scholarship will be dependent upon how many students achieve this status. Transfer students must complete a full-year at St. John the Baptist High School (from September to June) to be considered as a candidate.

## COURSE WEIGHTING\*

Advanced Placement	1.11
St. John's University Courses and all Honors Classes	1.07
Molloy University/Adelphi University Courses and Regents Level Classes	1.03
All Other Courses	1.00

\*This weighting is used to calculate: Quarterly Averages, GPA, and Honors Convocation awards. Physical Education is not included in the calculation.

## COLLEGE PROGRAMS

There are two ways of obtaining College credit:

**1. Advanced Placement Courses** - these courses are taught on a college level and conclude each May with ***Advanced Placement*** examinations prepared by Educational Testing Services. Students who sign up for these courses **are required to take the examination**. If, for whatever reason, a student does not sit for this examination, that will be noted on the final transcript. Scores on the examination range from a low of 1 to a high of 5. A score of 3 or better is given credit and/or placement at select colleges. The fee for the exam is approximately **\$100.00** payable by the student upon acceptance into the A.P. course. A.P. Capstone Exams cost approximately **\$150.00**. For any college level course, it is the responsibility of students to determine from their prospective colleges the manner in which those colleges may apply their credit.

**2. College Credit Courses** - are offered in conjunction with ***St. John's University, Molloy University, and Adelphi University***. These courses are offered to qualified and motivated students who wish to begin their college education while remaining in the atmosphere of a high school setting. All courses are taught by St. John the Baptist Diocesan High School teachers who are affiliated with the University or College. These are freshman level college courses and are listed in the University and College catalogue. Students earn dual credit for each semester course and receive an official transcript which may be submitted for transfer credit to the college of choice. The cost of each semester course varies with each school. This fee **must** be paid at the start of each semester.

Approximate cost per course: *Adelphi University* - **\$390**; *St. John's University* - **\$325**;  
*Molloy University* – **\$180**.

Parents and Students should consult the St. John the Baptist Website ([www.stjohnthebaptistdhs.net](http://www.stjohnthebaptistdhs.net)) for specific registration dates. The deadline dates for registration are mandated by the colleges offering the credit – **not** St. John the Baptist Diocesan High School. Students will not be permitted to register for college credit if they do not register on time.

**To qualify for SJU College Credit Courses:**

**Seniors** must have a minimum average of 80% in the 5 academic subjects (*English, Math, Social Studies, Language and Science*) and a combined math and critical reading SAT score of **1080** (or 1080 on the PSAT) of which you must score 500/50 on the critical reading SAT/PSAT. Seniors may enroll in up to 3 courses (or 9 credits) a semester in *English, Mathematics, Fine Arts, Science, and Social Studies*.

**Juniors** must have a minimum average of 85% average in the 5 academic subjects (English, Math, Social Studies, Language and Science) and a combined math and critical reading SAT score of **1080** (or 1080 on the PSAT) of which you must score 500/50 on the critical reading SAT/PSAT. Juniors may enroll in up to 3 courses (or 9 credits) a semester in *Mathematics, Language, and Fine Arts*.

**All students** taking Mathematics courses must have a minimum of 500/50 on the critical reading and 500/50 on the math sections of the SAT/PSAT.

**Please Note:**

October SAT scores taken in senior year will not qualify a student for SJU college credit.

## **COURSES OFFERED FOR ST. JOHN'S UNIVERSITY CREDIT:**

**NOTE:** These courses are St. John the Baptist High School courses. Students registering for these classes will not be permitted to add or drop regardless of College policies.

### **ART DEPARTMENT**

Drawing Experiment (Art 1050) 3 credits

### **ENGLISH DEPARTMENT**

Expository Writing (English 1000C) 3 credits

Study of British Literature (English 2210) 3 credits

### **WORLD LANGUAGE DEPARTMENT**

College Spanish (Spanish 2030) 3 credits

Intermediate Spanish Conversation  
(Spanish 2040) 3 credits

### **MATHEMATICS DEPARTMENT**

University Calculus I (Math 1730) 4 credits

University Calculus II (Math 1740) 4 credits

### **SCIENCE DEPARTMENT**

Fundamentals of Biology I (Biology 2000) 4 credits

Fundamentals of Biology II (Biology 3000) 4 credits

### **SOCIAL STUDIES DEPARTMENT**

Introduction to Sociology (Sociology 1000C) 3 credits

Social Problems (Sociology 1070) 3 credits

## **COURSES OFFERED FOR MOLLOY UNIVERSITY CREDIT:**

### **MATH DEPARTMENT**

Statistics (Math 115JB) 3 credits

Pre-Calculus (Math 118JB) 3 credits

Intro. To Calculus/Calculus I (Math 221JB) 4 credits

## **COURSES OFFERED FOR ADELPHI CREDIT:**

### **PHYSICAL EDUCATION DEPARTMENT**

Sports Medicine (First Aid and Injury Control) 3 credits

Physical Activity (0852-167-089)

A description of each of these courses may be found under the respective department listings.

## **COUNSELING DEPARTMENT**

The Counseling Department offers to each student a three-fold program:

- Assistance in facilitating academic success.
- Aid in better understanding one's strengths and limitations, as well as identifying interests.
- Assistance in planning for and attaining academic and career goals.
- Assistance with social/emotional needs of students.

Parents and students should become familiar with the Counseling website. All scholarship and testing information is available online. Individual and group tests, orientation programs and Counseling classes are scheduled during the school year. Counselors also use group or individual appointments to provide the students with information relating to colleges, careers and vocational training as well as to assist students in planning their annual program. The Counseling Department is equipped with computers available to all students for career exploration, college planning and selection.

Although students are assigned to a counselor according to the alphabet, every student is free to request a particular counselor. Students may make an appointment to see their counselor during their lunch or study period. The Counselors are always available to assist parents, teachers and administrators in resolving student-related problems.

***For further information, contact our Counseling Department at (631) 587-8000 ext. 126 or [www.stjohnthebaptistdhs.net](http://www.stjohnthebaptistdhs.net).***



## ART DEPARTMENT



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### 7201 STUDIO IN ART (*Open to Sophomores*)

Year – 1 Unit

This course is part of the *New York State Regents* curriculum. The class meets daily for one full year. Students are introduced to a variety of art techniques and media. Emphasis is given to the elements and principles of art as well as the history of art. Through demonstration, observation and hands-on studio experience, students gain a greater appreciation and understanding of the Fine Arts. This course fulfills the basic state requirement for Art.

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### ART ELECTIVES ELECTIVES CANNOT REPLACE REQUIRED COURSES

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**Prerequisite: Course 7201**

### 7501 PAINTING (*Open to Juniors and Seniors*)

Semester – 1 Unit  
(Double Period Class)

The element of color is explored and assistance is given in the development of a personal art style. Emphasis is placed on color theory while experiencing a variety of painting media which include watercolor, tempera, acrylic, water soluble oils and mixed media. A major project is assigned. Work outside of the classroom is mandatory.

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**Prerequisite: Course 7201**

### 7504 DRAWING EXPERIMENTS SJU (*Open to select Juniors and Seniors*)

Semester – 1 Unit  
3 SJU Credits  
(Double Period Class)

**Refer to: page 1 for Honors requirements and SJU Requirements on pages 5 and 6**

Various drawing techniques are explored. A variety of media will be encouraged to help develop personal style. Individual attention is given toward specific college portfolio needs. This course is based on the “**contract system**” where students are expected to work independently as well as in the classroom. Work outside the classroom is **mandatory**. This course may be taken for school credit if the student does not meet SJU requirements.

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**Prerequisite: Course 7201**

### 7511 DRAWING (*Open to Juniors and Seniors*)

Year – 1 Unit

In this single period course, Students will learn skills and techniques for drawing accurately from direct observation. Emphasis is placed on understanding form through value, proportion, and perspective of various subjects and is geared toward portfolio preparation. A variety of media will be explored including pencil, pen, ink, charcoal, and pastel.

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### 7521 PHOTOGRAPHY I *Film* (*Open to Juniors and Seniors*)

Semester - 1 Unit  
(Double Period Class)

**Students must have access to a 35mm camera (automatic or manual)**

In this studio Art class, students learn the basic darkroom procedures (developing and printing of black and white pictures), how to use and control light, as well as visual editing and cropping in order to strengthen their picture taking techniques. Also, students learn correct presentation format and produce a final portfolio suitable for college entrance or personal use.

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**7525 AP 2-D Art and Design – Photography****Year – 1 Unit****Students must have access to a 35mm camera (automatic or manual)**

This is a full year AP Art and Design course with a focus on traditional black and white photography as well as an exploration of experimental techniques and alternative processes. Students will use a 35mm camera for the course and develop their own black and white film and make photographic prints in the darkroom. Students will develop and explore an inquiry-based sustained investigation which will culminate in the submission of a portfolio to the College Board. This portfolio will contain five selected works that each demonstrate synthesis of materials, processes, and ideas using 2-D art and design skills and 15 works along the process.

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***Prerequisite: Course 7521 or 7524*****7531 PHOTOGRAPHY II** *(Open to Juniors and Seniors)***Semester - 1 Unit  
(Double Period Class)**

In this advanced level course, students will continue to learn the creative exploration of film photography and the darkroom. Emphasis will be placed on stretching the photographers' creative ability and understanding of photographic techniques. It will also focus on understanding the connections between film and digital photography. Students will produce a portfolio as part of their final grade.

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**7541 CERAMICS** *(Open to Juniors and Seniors)***Semester -1 Unit  
(Double Period Class)**

This course is designed for students who are interested in working with clay. It includes experimentation with the various methods of handling clay, understanding and utilizing the various glazes and glaze techniques. This course introduces the student to ceramic sculpture.

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**7581 DIGITAL PHOTOGRAPHY****Semester – 1 Unit  
(Double Period Class)****Students must have access to a digital camera**

This one semester course is an introduction to digital photography. Students will learn the basics of a digital camera, including how to use and control light, composition techniques, as well as how to use photo editing software. The knowledge that students gain in this course will help them to shoot creatively as they develop a photographic eye. Students will produce a digital portfolio suitable for college entrance or personal use.

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## COMPUTER SCIENCE DEPARTMENT

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### 6651 INTRODUCTION TO COMPUTER SCIENCE

Semester – ½ Unit

(Required Course for Graduation)

This required course will introduce computer science. In this project-based class, students will be taught four basic components that include, **Cybersecurity, Digital Literacy, Impacts of Computing, Networks and System Design, Graphic Design, and Coding/Computational Thinking**. The students will also be kept up to speed with effective operation and implementation of their school-issued Chromebook as well as the Google, Microsoft Office, Adobe suite of applications, and various web-based programs.

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## COMPUTER SCIENCE ELECTIVES

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### 6535 AP COMPUTER SCIENCE PRINCIPLES *(Open to select Juniors and Seniors)* Year - 1 Unit

***Refer to: page 1 for Advanced Placement Courses***

This course introduces students to the creative aspects of programming, algorithms, the *Internet*, cyber security concerns, and computing impacts. These aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in *Computer Science*. Prior knowledge of any programming language is not required; however, this is a College level course, therefore the curriculum is demanding.

**Students must take the Advanced Placement examination for possible college credit.**

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### 6525 AP COMPUTER SCIENCE A *(Open to select Juniors and Seniors)* Year - 1 Unit

***Refer to: page 1 for Advanced Placement Courses***

Computer Science A consists of a study of: 1) Program specification design, coding, and documentation. 2) Procedures and functions, parameter passing and recursion. 3) Features of highly structured programming languages (Java). 4) Files, arrays, records, and other data structures. 5) Searching and sorting. 6) Basic elements of computer systems. 7) Applications. **Students must take the Advanced Placement examination for possible college credit.**

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### 6571 COMPUTER GRAPHICS *(Open to all students)* Semester - ½ Unit

This course introduces the student to the basic programs used in computer generated art, design, and animation using the Adobe Creative Cloud (Photoshop and After Effects) and web-based editing applications. Emphasis is placed on original and creative use of technology. Various projects will be produced using elements and principles of design and animation.

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### 6641 INTRODUCTION TO COMPUTER PROGRAMING Semester – ½ Unit

(Open to Juniors, Seniors and Select Sophomores)

This project based course introduced computer programming using the internet language HTML, and the Python and JavaScript programming languages. Emphasis is placed on the internet, common algorithms and programming principles. Students will create computer programs using object-oriented design as well as learning concepts needed for the AP Computer Science courses.

## ENGLISH DEPARTMENT

*Four years of English Language Arts are required by the New York State Board of Regents.*

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### **1101 ENGLISH 9 FUNDAMENTALS\*** (*Open to select Freshmen*) **Year - 1 Unit**

The focus of this course is intensive instruction in reading, writing and study skills. Emphasis is on the areas of reading comprehension, literary analysis, and writing technique.

***Placement in this course is based on scores attained on the entrance examination and eighth grade English scores.***

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### **1102 ENGLISH 9 REGENTS\*** **Year - 1 Unit**

Freshmen are introduced to different literary genres and themes in literature. Emphasis is placed on reading and writing as well as on effective communication skills. Research, vocabulary, grammar, and composition are also areas of concentration.

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### **1103 ENGLISH 9 HONORS\*** (*Open to select Freshmen*) **Year - 1 Unit**

Highly motivated freshmen with well-developed study skills are challenged by an in-depth study of various literary genres. Emphasis is placed on perfecting language skills through creative written and oral expression. Comprehensive vocabulary study and an introduction to research are important components of this course. Students are expected to do independent research.

***Placement in this course is based on scores attained on the entrance examination and eighth grade English scores.***

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### **1201 ENGLISH 10 FUNDAMENTALS\*** (*Open to select Sophomores*) **Year - 1 Unit**

The focus of this course is on intensive instruction in reading, writing, and study skills. Emphasis is on development in the areas of reading comprehension, literary analysis, and writing technique.

***Placement in this course is based on the recommendation of freshman year teacher in consultation with student's parents and the department chairperson.***

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### **1202 ENGLISH 10 REGENTS\*** **Year - 1 Unit**

Sophomores will continue to focus on the study of literary themes and genres. Selected readings will reflect different cultures and time periods. Emphasis will be placed on the development of critical reading, writing, and listening skills, research, spelling, vocabulary, and grammar will also be areas of concentration.

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### **1203 ENGLISH 10 HONORS\*** (*Open to select Sophomores*) **Year - 1 Unit**

**Refer to: page 1 for Honors Courses**

Highly motivated sophomores with well-developed language arts skills study World Literature as part of their literary heritage. The mastery of composition, vocabulary, and grammar is demonstrated through creative writing assignments which provide an outlet for the individual's creative talent. Students in the English 10 Honors program are expected to demonstrate a love of reading through an extensive required reading list. Students are expected to do independent research.

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**1301 ENGLISH 11 FUNDAMENTALS\*** (*Open to select Juniors*)**Year - 1 Unit**

The focus of this course is intensive instruction in reading, writing, and study skills. Emphasis will be given to the areas of reading comprehension, literary analysis, and writing techniques. Students are required to take the *Common Core English Language Arts Regents Examination* in June. ***Placement in this course is based on the recommendation of sophomore year teacher in consultation with student's parents and the department chairperson.***

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**1302 ENGLISH 11 REGENTS\*****Year – 1 Unit**

Students survey American Literature from its beginnings to the present through reading, discussion, and analysis of selected works. Emphasis is placed on the ability to write original compositions and essays in literary appreciation. Students are required to take the *Common Core English Language Arts Regents Examination* in June. A major research paper is required.

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**1303 ENGLISH 11 HONORS\*** (*Open to select Juniors*)**Year – 1 Unit**

**Refer to: page 1 for Honors Courses** Highly motivated juniors with well-developed language skills learn to analyze American Literature from its beginning to the present. Emphasis is placed on maturity of expression and vocabulary through critical essays and compositions. Students are required to take the *Common Core English Language Arts Regents Examination* in June. Students are required to read independent assigned literature each quarter. A major research paper is required.

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**1305 ADVANCED PLACEMENT ENGLISH - ENGLISH LITERATURE AND COMPOSITION\****(Open to select Juniors)***Year – 1 Unit****Refer to: Page 1 for Advanced Placement Courses**

The course consists of intensive training and in-depth study of both American and British literature as well as extensive prose writing. Students are expected to respond to and compose papers of varying length, in addition to studying high levels of English syntax and linguistic structure. Analytical and critical thinking are emphasized. ***Students are required to take both the A.P. Exam in May, and the Common Core English Language Arts Regents Examination in June.***

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**1402 ENGLISH 12 REGENTS\*****Year – 1 Unit**

This course introduces seniors to major works in British Literature from the Anglo-Saxon period to the Contemporary period. In addition, the course will focus on the fundamentals of composition and the research process. Students are required to write essays and a literary analysis paper.

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**1404 ENGLISH 12 HONORS - SJU\*** (*Open to select Seniors*)**Year – 1 Unit**

**Refer to: page 1 for Honors requirements and SJU Requirements on pages 5 and 6.**  
**Verbal SAT requirement: 500 or higher**

**Students who qualify must take BOTH of these courses to satisfy their 12<sup>th</sup> grade English requirement**

**STUDY OF BRITISH LITERATURE****Semester 1**  
**3 SJU Credits**

This course will allow students to dig deeply into the treasures that comprise British Literature. Particular works from specific time periods will be explored. Students will be required to apply sophisticated reading and writing skills to the works under study. It is expected that students are also prepared to be active participants on a daily basis in this literature-based curriculum.

***Prerequisite: Study of British Literature***

**FIRST YEAR COLLEGE WRITING****Semester 2**  
**3 SJU Credits**

Welcome to a rigorous and challenging writing experience. This course of study is unlike any English-based curriculum that high school students have encountered thus far. Throughout the length of the course, students will participate in daily high-stakes and low-stakes writing. Rooted in the notion that writing is a process, students will also be expected to craft numerous drafts of each work, culminating in a working portfolio for each major assignment. As this is a student-centered course, classroom discussions and peer editing will be an essential norm. Students will also study a variety of contemporary writers to aid in the development of their own style.

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**1405 ADVANCED PLACEMENT ENGLISH – ENGLISH LANGUAGE AND COMPOSITION\***  
(*Open to select Seniors*)**Year - 1 Unit**

**Refer to: page 1 for Advanced Placement courses**

This course is designed to help students become effective writers who can compose from a variety of purposes, as well as, to help them become skilled readers of varied prose. Through their writing and reading, students will be able to identify a writer's purpose and subject, as well as audience expectations. Students will also be able to understand the way generic conventions and the resources of language contribute to effective writing. Students should expect an intensive writing-based workload. ***Students must take the Advanced Placement Examination for possible college credit in May.***



**ENGLISH ELECTIVES**  
**ELECTIVES CANNOT REPLACE REQUIRED COURSES**

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**1422 LITERATURE OF CRIME AND MYSTERY\*** (*Open to Juniors and Seniors*) **Semester – ½ Unit**

In this course students examine the development of the crime and mystery genre as a literary category beginning with Edgar Allan Poe's invention of the private investigator through contemporary literature and including authors such as Agatha Christie, Dashiell Hammett, and Sir Arthur Conan Doyle. By analyzing the writing process and various techniques, such as story structure, point of view, voice, and scene, students will examine how crime and mystery have been transformed beyond genre to create dramatic literary fiction. Reading responses, current event discussions and creative projects will be required. Through frequent writing, students will augment this curriculum.

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**1611 SCI-FI AND FANTASY LITERATURE** **Semester - ½ Unit**

This course will focus on science fiction and fantasy as genres which combine literary art, scientific and philosophical speculation and the wonder of unknown possibilities. Writers mix and match aspects of these genres to create amazing stories of technological feats and magical powers. The course will explore the history of the genre through an analysis of its roots in *The Brothers Grimm Fairy Tales* and then delve into representative themes and methods of storytelling in texts, films and television shows as well as in video games and other media. In addition, we'll examine the composition of science fiction and fantasy from a writer's standpoint and the course will culminate in a creative project where students will create their own works of sci-fi or fantasy in the medium of their choice.

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**1602 SPORTS LITERATURE** **Semester - ½ Unit**

This half year class will focus on the connection between sports and literature. Sports have always been, like theater, a venue for emotional expression. Relying on the ideals of competition, spectacle, and personal struggle, sports offers authors the perfect backdrop to examine human nature in times of both triumph and defeat. As such, sports literature often transcends sport and highlights aspects of the human condition relatable to all.

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**1521 FILM STUDY\*** (*Open to Juniors and Seniors*) **Semester – ½ Unit**

Americans have been in love with movies for more than one hundred years! Film Study explores the motion picture industry, history of Hollywood, and classic films. Students in this course are expected to actively watch, discuss, and write about each film under study.

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**1531 SPEECH\*** (*Open to Juniors and Seniors*) **Semester – ½ Unit**

Students learn the fundamentals of public speaking. Emphasis is placed on the identification and improvement of speech patterns as well as the oral ability to communicate more effectively to an audience. Students are required to present various genres of speeches ranging from extemporaneous to informational. Students acquire the skills to outline a speech and write a manuscript. This class will prepare students for all postsecondary experiences. **Public speaking is a requirement.**

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**1541 CREATIVE WRITING\*** (*Open to Juniors and Seniors*)**Semester – ½ Unit**

Students will develop sensitivity to and an appreciation of the various devices of language used by writers. Students are guided in the development of their own literary style by critically examining their own writing. Genres stressed are memoir writing, poetry, play writing, and short stories. Throughout the course, students will be expected to write often and be invested in developing their skills through the process of revision. Students will leave this course with a stronger grasp of the writing process which will be beneficial for college and career readiness. **Students will be expected to have basic skills in writing upon entering this course.**

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**1581 WORD POWER – STANDARDIZED TEST PREP***(Open to Juniors and Seniors: recommended for juniors)***Semester – ½ Unit**

This course is designed to help students improve their test-taking potential to maximize test results on the SAT, ACT, and Regents Exams. Students will acquire important strategies, expectations, and content information. Class instruction includes a review of problem-solving skills as well as approaches to help improve reading comprehension and essay writing.

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**AP CAPSTONE PROGRAM**

*AP Capstone is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills. AP Capstone is built on the foundation of two AP courses – AP Seminar (#1205) and AP Research (#1505) – and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses.*

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**1215 AP SEMINAR\*** (*Open to select Sophomores and Juniors*)**Year – 1 Unit****Refer to: Page 1 for Advanced Placement Courses**

In this course, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources to develop credible and valid evidenced-based arguments. Students are assessed with two through-course performance tasks and one end-of-course exam. All three assessments are summative and will be used to calculate a final AP score. **Students must take the AP Exam in May and a final exam in June.**

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***Prerequisite: Course 1215*****1515 AP RESEARCH\*** (*Open to Select Juniors and Seniors*)**Year – 1 Unit****Refer to: Page 1 for Advanced Placement Courses**

In this course, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students are assessed with one through-course performance task consisting of two distinct components: a culminating academic paper and an oral defense. Both components will be included in the calculation of a final AP score. Students must complete both the written and oral presentation portions of this course.



## HEALTH/PHYSICAL EDUCATION DEPARTMENT

*New York State law requires each student to take Physical Education during each term he/she attends high school. Students unable to participate due to health problems must produce a doctor's note and are required to complete an independent study program. SJB gym uniforms and sneakers are required of all students.*

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### **Required by New York State for Graduation**

#### **9621 HEALTH EDUCATION\*** (*Open to Freshmen*)

**Semester – ½ Unit**

The purpose of this course is to provide students with the necessary knowledge and skills to maintain a safe and healthy environment.

Students will have the opportunity to discuss various health issues such as: nutrition, first aid, CPR, mental and emotional health, sexuality, relationships, societal issues and issues related to alcohol, tobacco, drugs and other substance abuse and life skills. Special emphasis is placed on individual responsibility and the decision-making process in the context of Christian values.

**All students are required to give oral presentations.**

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#### **9111 (Boys) & 9121 (Girls) PHYSICAL EDUCATION 9/10**

**Year – ½ Unit**

This course gives the student the opportunity to learn the fundamentals of a variety of sports. Emphasis is placed on skill development, rules and regulations and overall knowledge of various sports. Sportsmanship, safety and fair play are all highlighted. Activities to be covered include: soccer, volleyball, basketball, weight training, kickball, European handball, football, tennis, badminton, track & field, fitness, flag football, and pickleball.

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#### **9411/9431 (Boys) & 9421/9441 (Girls) PHYSICAL EDUCATION 11/12**

**Year – ½ Unit**

Students will participate in physical education activities---team or individual---and incorporate them into game-like situations. Included in this course is learning the skills of strategy as well as emphasizing the lifetime values of physical fitness and respect for their bodies and each other.

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#### **9521 DANCE I**

*(Open to 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students enrolled in Earth Science or Biology)*

**Year – ½ Unit**

This course will take the place of your traditional physical education class. Open to all dance levels; the course will cover both traditional dance styles as well as Dance Fitness techniques. Techniques such as Ballet, Lyrical, Contemporary, Jazz, Tap and Aerobic dance will be covered. Additional SJB Dance uniform and dance shoes are required. Information for purchasing uniforms and shoes will be discussed in class. **Course may be repeated as Dance II.**

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#### **9531 DANCE II** (*Open to students enrolled in Chemistry-level Science or Higher*)

**Year – ½ Unit**

This course is a continuation of Dance I. Open to all dance levels; the course will cover both traditional dance styles as well as Dance Fitness techniques. Techniques such as Ballet, Lyrical, Contemporary, Jazz, Tap and Aerobic dance will be covered. Additional SJB Dance uniform and dance shoes are required. Information for purchasing uniforms and shoes will be discussed in class. **Course May Be Repeated.**

**PHYSICAL EDUCATION ELECTIVES  
ELECTIVES CANNOT REPLACE REQUIRED COURSES**

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**9502 INTRODUCTION TO SPORTS MEDICINE** (*Open to Juniors and Seniors*) **Semester – ½ Unit**

This course teaches students, who are interested in sports medicine fields, hands-on skills and knowledge relevant to those careers. It also covers the injuries, injury prevention, and different types of fitness (strength training, aerobic activity, etc.) This course can be taken for college credit through Adelphi University. *Student must meet requirements of St. John the Baptist and Adelphi University.* It cannot be taken in place of any required Physical Education course.

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**9522 NUTRITION AND WELLNESS** (*Open to Juniors and Seniors*) **Semester – ½ Unit**

Nutrition is an essential for understanding nutritional needs and food choices for individuals throughout their lifespan. This course will develop the necessary skills and knowledge for individuals to select among alternatives in the marketplace, with emphasis on nutrient content, healthy choices, and food safety. All students are required to give oral presentations.



## WORLD LANGUAGE DEPARTMENT

Students are required to complete a three-unit sequence in a World Language for graduation. Students must choose from French, Italian, or Spanish. Sign Language does not qualify. Students who wish to graduate with an Advance Designation Regents diploma must pass the Checkpoint “B” Exam administered at the end of level three.

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**3142 ITALIAN I REGENTS\***

**3112 SPANISH I REGENTS\***

**Year -1 Unit (for each course)**

**Level I** - introduces the student to the fundamentals of language: listening, speaking, reading and writing skills. The student is also introduced to various aspects of the culture.

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***Prerequisite: Level I***

**3222 FRENCH II REGENTS\***

**3242 ITALIAN II REGENTS\***

**3212 SPANISH II REGENTS\***  
**Year -1 Unit (for each course)**

**Level II** - further develops the areas of language study: speaking, listening, reading and writing. The students are introduced to more complex grammatical structures and continue to explore different aspects of culture. Upon completion of this level, students will have a basic command of key vocabulary, the structures needed for communication and appreciation of other cultures.

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***Prerequisite: Level II***

**3322 FRENCH III REGENTS\***

**3342 ITALIAN III REGENTS\***

**3312 SPANISH III REGENTS\***  
**Year -1 Unit (for each course)**

**Level III** - places an emphasis on the four areas of language learning: speaking, listening, reading and writing. Correct grammar usage, mechanics of writing and pronunciation are stressed. Students continue to explore the different aspects of the culture. The target language is spoken in the classroom often throughout the school year. All students are required to take the *Checkpoint “B” Exam* in June.

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### WORLD LANGUAGE ELECTIVES ELECTIVES CANNOT REPLACE REQUIRED COURSES

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***Prerequisite: Successful completion of Spanish /Italian III course & Checkpoint ‘B’ Exam***

**3512 SPANISH IV REGENTS\***

**3542 ITALIAN IV REGENTS\***

**3522 FRENCH IV REGENTS\***  
**Year - 1 Unit (for each course)**

Level IV applies the knowledge that students have acquired during the first three years of study. Students further develop their skills as they are introduced to new grammar and vocabulary. Supplementary materials are implemented to enhance language use. Aspects of culture are emphasized through films and literature. There is a greater emphasis on assessment through projects and presentations.

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**Prerequisite: Successful completion of Spanish III & above level proficiency on the speaking section of the Checkpoint 'B' Exam**

**3513 SPANISH IV HONORS \***

**3642 ITALIAN IV Honors**

**Year – 1 Unit**

**Refer to: Page 1 for Honors Courses**

This course is designed to provide a challenging opportunity to advanced students who wish to further their knowledge of the Spanish Language. It will include: advanced grammar and sentence structures, reading compositions and literature, speaking and writing projects and use of a variety of media.

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**Prerequisite: Successful completion of Spanish III (3312) & above level proficiency on the speaking section of the Checkpoint 'B' Exam or successful completion of Spanish IV R (3512) or Spanish IV H (3513)**

**3524 ADVANCED SPANISH HONORS - SJU\***

**Year – 1 Unit**

**Refer to: page 1 for Honors requirements and SJU Requirements on pages 5 and 6**

**College Spanish (3 SJU credits) - Semester 1**

This course continues building oral and written proficiency with intensive reading and conversation within the context of the culture. The class is taught mostly in *Spanish* and students are required to speak *Spanish* in class.

**Intermediate Spanish Conversation (3 SJU credits) - Semester 2**

This course is a continuation of the College Spanish course. It continues building oral proficiency with intensive conversation within the context of the culture. The class is taught mostly in *Spanish* and students are required to speak *Spanish* in class.

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**Prerequisite: Successful completion of French III (3322) & above level proficiency on the speaking section of the Checkpoint 'B' Exam or successful completion of French IV R (3522)**

**3622 ADVANCED FRENCH IV HONORS – SJU\***

**Year – 1 Unit**

**Refer to: page 1 for Honors requirements and SJU Requirements on pages 5 and 6**

**College French (3 SJU credits) – Semester 1**

This course continues building oral and written proficiency with intensive reading and conversation within the context of the culture. The class is taught mostly in *French* and students are required to speak *French* in class.

**Intermediate French Conversation (3 SJU credits) – Semester 2**

This course is a continuation of the College French course. It continues building oral and written proficiency with more intensive reading and conversation within the context of the culture. The class is taught mostly in *French* and students are required to speak *French* in class.

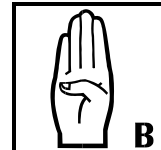
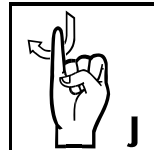
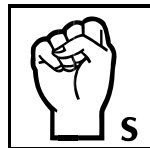
This course is designed to teach basic conversational skills in *American Sign Language* and awareness of various aspects of deafness. This course will present the student with the structure, conversational vocabulary and grammatical principles of *ASL* while also focusing on the historical, cultural, and social aspects of deafness. Students will develop beginner level signing ability in the area of receptive and expressive skills.

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***Prerequisite: Course 3501***

**3511 AMERICAN SIGN LANGUAGE II \*****Semester – ½ Unit**

This course will continue development of manual fluency in *American Sign Language*. Emphasis is placed on expressive and receptive conversational skills. The course provides information of historical, cultural, and social perspectives of *ASL*. This is an immersion program, which means that the use of voice is discouraged in class. The students are encouraged to use *ASL* rather than oral English in various class activities.



## MATHEMATICS DEPARTMENT

A Texas Instruments TI84+ Graphing Calculator is required for all classes. No substitutes are permitted. Considerable time is devoted to teaching students the functionality of this specific graphing calculator for its use on the N.Y.S. Regents examinations.

**Placement for incoming students is based on our assessment of 8<sup>th</sup> grade Math scores, standardized test scores and the Catholic High School Entrance Exam.**

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### 4141 ALGEBRA I FOUNDATIONS \*

Semester – ½ Unit

Topics in this course include algebra, functions, statistics, and probability, with an emphasis on algebra. This course is paired with a supplementary math lab period. Students will be introduced to a wide variety of topics in Algebra as part of their preparation for the NY State Common Core Algebra Regents Exam.

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### 4142 ALGEBRA REGENTS \*

Year - 1 Unit

The course will focus on Algebra and problem solving, including the following: linear and quadratic equations, absolute value and exponential functions, systems of equations, and sequences. It will culminate with the Algebra I Common Core Regents exam in June. **Passing the N.Y.S. Algebra I Common Core Regents Examination is a requirement for graduation.**

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### 4143 ALGEBRA HONORS \*

Year - 1 Unit

The course will focus on Algebra and problem solving, including the following: linear and quadratic equations, absolute value and exponential functions, systems of equations, and sequences. It will include additional topics, more in-depth problems, and extra problem-solving techniques. It will culminate with the *Algebra I Common Core Regents* exam in June. **Passing the N.Y.S. Algebra I Common Core Regents Examination is a requirement for graduation.**

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### 4241 INTERMEDIATE GEOMETRY \*

Year - 1 Unit

Students will study and investigate geometric relationships using appropriate theorems. This course will give students the opportunity to prove in a variety of ways, both formally and informally, that their conclusions follow logically from their hypothesis. Topics include constructions, transformations, triangles, quadrilaterals, congruence, similarity, and trigonometry. This course will culminate with a mandatory final exam.

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**Prerequisite: Successful completion of Algebra I and a passing score on the Common Core Algebra I Regents Exam**

### 4232 GEOMETRY REGENTS \*

Year - 1 Unit

This course will give students the opportunity to prove in a variety of ways, both formally and informally, that their conclusions follow logically from their hypothesis. Students will study and investigate geometric relationships using appropriate theorems. Topics include constructions, transformations, triangles, quadrilaterals, congruence, similarity, and trigonometry.

**The course will culminate with the *Common Core Geometry Regents Exam* in June.**

**Refer to:** Honors requirements on Page one

***Note: Course may be taken by incoming Freshmen who are enrolled in an Algebra Honors program in 8<sup>th</sup> Grade AND score a 90% or higher on the Common Core Algebra I Regents exam. In addition, scores attained on the entrance examination, standardized test scores and eighth grade Math scores will be used to determine eligibility.***

This course will give students the opportunity to prove in a variety of ways, both formally and informally, that their conclusions follow logically from their hypothesis. Students will study and investigate geometric relationships using appropriate theorems. Topics include constructions, transformations, triangles, quadrilaterals, congruence, similarity, and trigonometry. The course will culminate with the *Common Core Geometry Regents Exam* in June.

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***Prerequisite: Successful completion Geometry***

**4341 INTERMEDIATE ALGEBRA/TRIGONOMETRY \*****Year - 1 Unit**

This course is a continuation of the study of Algebra. It will encompass the solution of the quadratic equations with irrational and imaginary roots as well as the solution of the absolute value, radical, exponential and logarithmic equations, their graphs and applications. This course will culminate with a mandatory final exam.

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***Prerequisite: Successful completion of both Algebra & Geometry and a passing score on both Common Core Regents Exams***

**4332 ALGEBRA II AND TRIGONOMETRY REGENTS \*****Year - 1 Unit**

Recommended for students with a final grade of 80% or higher in both Algebra & Geometry courses. This course studies polynomial graphs, complex numbers, families of functions, systems of equations, data analysis, circular trigonometry, probability, and sequences & series. This course will culminate with the *Common Core Algebra II Regents Exam* in June.

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**4333 ALGEBRA II AND TRIGONOMETRY HONORS \*****Year - 1 Unit**

**Refer to:** Honors requirements on Page one

This course studies polynomial graphs, complex numbers, families of functions, systems of equations, data analysis, circular trigonometry, probability, and sequences & series. This course will culminate with the *Algebra II Common Core Regents exam* in June.

**MATHEMATICS ELECTIVES**  
**ELECTIVES CANNOT REPLACE REQUIRED COURSES**

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***Prerequisite: Course 4341***

**4431 FINITE MATH \***

**Year - 1 Unit**

This course is for students who may not be majoring in a math or science related field in college. It will focus on developing mental math skills and usage as well as the use of the graphing calculator for analysis of mathematical theories and their applications. This will allow the non-math major to study math in preparation for college math courses. This course will culminate with a mandatory final exam.

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**4441 ANALYZING FINANCIAL DECISIONS** (*Open to Seniors*)

**Semester – ½ Unit**

This course is a half-year senior elective designed to provide students with a foundational understanding to make informed personal financial decisions. Students will explore various topics they will encounter in their future careers such as taxes, insurance, retirement, investments, loans and budgeting fixed and variable cost. Students will experience real-world scenarios through the use of Unit Projects and use strategies in the course to evaluate the costs and benefits of their financial decisions. Topics include: Making Financial Decisions, Advertising and Consumer Awareness, Paychecks and Taxes, Insurance, Retirement, Investments, Credit, Loans, Independent Living and Budgeting. Work outside of the classroom is **mandatory**. Students must complete both the exams as well as Unit Projects to succeed in this course.

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**4442 BUSINESS FINANCE**

**Semester - ½ Unit**

Students learn about math by applying the principles being taught in scenarios where they are business owners. They will work in groups to answer the questions: How many employees do I need? What are my profits? How do I do my taxes? Students learn to answer these basic questions that each small business owner needs to know as they create businesses and sell products to the other students. Topics will include choosing companies, creating, selling and advertising products, federal taxes and tax returns, calculating payroll, profit analysis, designing products, shipping cost analysis, and experimental probability. Work outside of the classroom is mandatory. Students must complete both the exams as well as the Unit Projects to succeed in this course.

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***Prerequisite: Successful completion of course 4332 and a passing score on the Common Core Algebra II Regents Exam***

**4502 PRECALCULUS: MATH IV \***

**Year - 1 Unit**

This course is intended for college bound students. It examines the study of elementary functions, the algebra of real and complex number systems, polynomials and utilizing the functionality of the TI84+ graphing calculator. Qualified students may take this course for 3 college credits through Molloy University. This course will culminate with a mandatory final exam.



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**Prerequisite: Successful completion of course #4332 or #4333 and a passing score on the Common Core Algebra II Regents Exam**

**4503 PRECALCULUS HONORS \***

**Year - 1 Unit**

**Refer to: Honors requirements on Page one**

This course is intended for college bound students. It examines the study of elementary functions, the algebra of real and complex number systems, polynomials and utilizing the functionality of the TI84+ graphing calculator. Additional topics include a detailed introduction to Differential Calculus, in the spring. Qualified students may take this course for 3 college credits through Molloy University. This course will culminate with a mandatory final exam.

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**Prerequisite: Course 4332, 4333, or 4341**

**4512 STATISTICS \***

**Year - 1 Unit**

Elementary statistics topics are investigated using the functions of the TI84+. Sampling, measure of central tendency and measures of dispersion, normal and "t" distributions, hypothesis testing, chi squares and correlation are some of the topics to be studied. An emphasis will be placed on student produced projects. Qualified students may take this course for 3 college credits through Molloy University. This course will culminate with a mandatory final exam.

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**4514 COLLEGE ALGEBRA \***

**Year - 1 Unit**

This course is intended for students who need an enhanced foundation in Algebra and Trigonometry. The topics include algebraic and trigonometric functions and their graphs. Also covered are exponential and logarithmic functions and their graphs, systems of equations and inequalities. Prerequisite- Three years of math including Algebra I, Geometry, and Algebra 2. Students must have passed the Algebra I Regents examination.

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**Prerequisite: Course 4502 or 4503**

**4522 INTRODUCTION TO CALCULUS/CALCULUS \***

**Year - 1 Unit**

This course is for students who wish to satisfy college core requirements. It will create a strong Calculus I foundation. The course will cover limits, continuity, the derivative and its applications, with an emphasis on real world applications, among other topics. Qualified students may take this course for 3 college credits through Molloy University. This course will culminate with a mandatory final exam.

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**Prerequisite: Course 4503 or 4502**

**4414 CALCULUS HONORS – SJU \***

**Year - 1 Unit**

**UNIVERSITY CALCULUS I (4 SJU Credits) Semester 1**  
**UNIVERSITY CALCULUS II (4 SJU Credits) Semester 2**

**Refer to: Page 1 for Honors Courses and SJU Requirements on page 5 and 6**

This course is for Honors students interested in Math related fields, and those who wish to satisfy college core requirements. Functions, limits, both differential and integral calculus and their applications are studied, according to St. John's University. This course will culminate with a mandatory final exam.

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***Prerequisite: Course 4503 or 4502 with teacher recommendation***

**4415 AP CALCULUS AB \***

**Year - 1 Unit**

**Refer to: Page 1 for Advanced Placement courses**

This course is for Honors students interested in Math related fields, and those who wish to satisfy college core requirements. This *Advanced Placement* course in *AB Calculus* studies both differential and integral calculus. It includes applications such as optimization, volume of solids of revolution and slope fields, Students must take the Advanced Placement Examination for possible college credit in May. In addition to the AP exam this course will culminate with a mandatory final exam.

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***Prerequisite: Course 4332 or 4333***

**4425 AP STATISTICS \***

**Year - 1 Unit**

**Refer to: Page 1 for Advanced Placement courses**

This course is for Honors students interested in Math related fields, and those who wish to satisfy college core requirements. The course studies exploratory analysis, planning a study, probability, and statistical inference. Students must take the Advanced Placement Examination for possible college credit in May. In addition to the AP exam this course will culminate with a mandatory final exam/final project.



## PERFORMING ARTS DEPARTMENT

The following performance ensembles are required to take group lessons during the school day on a rotating schedule, one period per cycle: 8413, 8501, 8521, 8533, 8553, and 8571. Lessons rotate on a 3-period cycle so students do not miss the same class more than once a month. Students are responsible for all material they might have missed. If a student has a test, lab, quiz, or important review, make-up lessons will be scheduled with teacher within one week to receive full credit. NYSSMA and SCMEA competitions are encouraged (a requirement to become a member of the Tri-M Music Honor Society).

See page 1 regarding after-school courses/rehearsals.

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### CHORAL COURSES

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#### 8131 SJB WOMEN'S CHORUS - *By Audition Only* (Open to all students after audition) Year - 1 Unit

Offered to female students, this class meets daily for an entire year. This course focuses on personal growth and development of the entire individual through the art of singing and performance. Throughout the course students will learn the basic foundation of modern musical notation and production of a healthy vocal tone. Music in this course spans multiple genres, cultures, and periods to be studied and performed throughout the year. **Since this is a performance-based class, all after-school rehearsals in preparation for concerts, and other performances are mandatory.** Approximate cost of concert gown: \$80.00.

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**Prerequisite: One Year of SJB Chorus, Band, or Orchestra**

#### 8553 BEL CANTO CHORALE - *By Audition Only*

(Open to Sophomore, Junior, and Senior students after audition)

Year - 1 Unit

Offered to select **female singers**, this course meets daily for an entire year. This course is a continuation of the student's performing arts ensemble experience emphasizing advanced voice training, sight-singing and music theory. Students will build upon their knowledge foundation of music theory, and continue to develop their vocal tone and agility. These students will be required to perform in public; play at school events; and participate in NYSSMA. Music in this course spans multiple genres, cultures, and periods to be studied and performed throughout the year. This competitive women's ensemble participates in various performance competitions and festivals throughout the year. This course has a research component that is determined based on performance literature done throughout the year. **Since this is a performance-based class, all after-school rehearsals in preparation for concerts and other performances are mandatory.** Approximate cost of concert attire: \$80.00

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#### 8571 HIMPONIX - *By Audition Only* (Open to all students after audition)

Year - 1 Unit

This course meets daily and is designed for **male singers** who love to sing. This course focuses on personal growth and development of the entire individual through the art of singing and performance. Throughout the course students will learn the basic foundation of modern musical notation and the core elements of healthy vocal tone for the male voice. Music in this course spans multiple genres, cultures, and periods to be studied and performed throughout the year. **Since this is a performance-based class, all after-school rehearsals in preparation for concerts and other performances are mandatory.** Approximate cost of concert attire: \$100.00



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## INSTRUMENTAL COURSES

**Required concert attire for all performance courses:**

**Females – long black skirt & long-sleeved white blouse**

**Males – black pants, long sleeved white shirt, & appropriate tie**

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### 8413 SELECT WIND ENSEMBLE - *By Audition Only*

**Year - 1 Unit**

This is an honors course offered to band students **who are intermediate to advanced NYSSMA level 5 and above**, the course meets daily for the entire year. Attention is focused on advanced ensemble playing and musicianship, as well as, advanced solo literature, and technique in preparation for participation in both solo and ensemble County and State music festivals. All band students are required to have one lesson per week in addition to the regular scheduled class. Lessons will rotate on a 3-period schedule during the day. These students will be required to perform in public; play at school events; and participate in NYSSMA. Instruments are either, student owned, rented by the student or borrowed from the school on contract. This course has a research component that is determined based on performance literature done throughout the year. ***Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts. The approximate cost of concert attire is \$160.00***

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### 8501 SYMPHONIC BAND - *By Audition Only*

**Year - 1 Unit**

**Offered to band students ranging from novice to intermediate levels**, the course meets daily for the entire year. Attention is focused on ensemble playing and musicianship. Emphasis will be placed on instrumental technique, conducting technique and solo playing in preparation for participation in both Solo and Ensemble County and State music festivals. All band students are required to have one lesson per week in addition to the regular scheduled class. Lessons will rotate on a 3-period schedule during the day. Instruments are either student owned, rented by the student, or borrowed from the school on contract. ***Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.***

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### 8521 STRING ORCHESTRA - *By Audition Only*

**Year - 1 Unit**

Offered to **string instrument students** (viola, violin, cello, and bass), this ensemble meets daily for the entire year. Attention is focused on ensemble playing and musicianship. Emphasis will be placed on the development of technique, tone, and solo playing in preparation for both Solo and Ensemble County and State music festivals. Students are required to have one lesson per week in addition to the regular scheduled class. Lessons will rotate on a 3-period schedule during the day. These students will also be required to perform in public and for school events, in addition to school concerts. Instruments are either student owned, rented by the student or rented from the school by contract. ***Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.***

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**8533 SYMPHONY ORCHESTRA - *By Audition Only*****Year - 1 Unit**

This is an honors course offered to **advanced string instrument students** (violin, viola, cello, bass), this ensemble meets daily for the entire year. Attention is focused on advanced ensemble play both as a string group and full symphony orchestra. Emphasis is placed on advanced orchestral repertoire as well as solo playing in preparation for both Solo and Ensemble County and State music festivals. Students are required to have one lesson per week in addition to the regular scheduled class. Lessons will rotate on a 3-period schedule during the day. These students will be required to perform in public; play at school events; and participate in NYSSMA. Instruments are either student owned, rented by the student or rented from the school by contract. This course has a research component that is determined based on performance literature done throughout the year. ***Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts. The approximate cost of concert attire is \$80.00***

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**8601 JAZZ ENSEMBLE - *By Audition Only*****Year – ½ Unit****Refer to: Page 1 for After School Courses**

Offered to **advanced students who are NYSSMA level 4 and above**, this ensemble meets alternating days. Attention is focused on both Big Band Ensemble playing and Jazz combo playing. Students will be exposed to many facets of Jazz music, such as, Jazz theory, Jazz history, and Improvisation. Emphasis will be placed on the development of instrumental technique, conducting technique and solo playing in preparation for participation in both Solo and Ensemble County and State music festivals. These students will also be required to perform in public and for school events, in addition to school concerts. Instruments are either student owned, rented by the student or borrowed from the school by contract. ***Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.*** This course meets ***three times a cycle*** after school, from 3:00 - 3:40

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**8661 PERCUSSION ENSEMBLE - *By Audition Only*****Year – ½ Unit****Refer to: Page 1 for After School Courses**

Offered to all percussionists, this course will explore the craft in an environment beyond the typical band classroom. The course will be intensive; students will be expected to play a variety of percussion instruments, as well as develop a substantial knowledge of percussion history and development. Students will be required to perform at a variety of SJB events each year, including, but not limited to *Open House, and the Pops Concert*. ***Participation in school concerts and all school Percussion ensemble events is mandatory.*** This course meets ***three times a cycle*** after school, from 3:00 - 3:40.

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**8731 LITURGICAL MUSIC****Year – ½ Unit****Refer to: Page 1 for After School Courses**

This class that meets twice a week, either after school or during a lunch period. This course is unique in that it is a performance music class but it is open to **ALL** students. Throughout the school year, Liturgical music will participate in a variety of required school events, including but not limited to Opening Day Mass, Days of Prayer, and Christmas Eve liturgy. This class offers students the opportunity to explore the music of the liturgy service as well as enhance their own musical capabilities.

## DANCE COURSES

***SJB Dance uniform and various types of dance shoes are required for all Dance classes.***

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### ***Placement Audition Required for incoming freshmen***

#### **8671 DANCE and CHOREOGRAPHY** (*Open to Freshmen and Sophomores*)

**Year - 1 Unit**

This course will meet every day for the entire year and will fulfill the New York State Art/Performing Arts requirement. Various dance techniques will be studied including: ballet, jazz, modern, lyrical, and choreography. In addition, students will explore dance history and learn an original dance piece for the annual Dance Concert. Requirements include a dance performance critique, and participation in the Dance Concert. **Course cannot be repeated. Some Dance experience is recommended.**

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### ***Dance experience recommended***

#### **8691 DANCE COMPOSITION AND CHOREOGRAPHY**

(*Open to Juniors and Seniors*)

**Semester – ½ Unit**

This course is designed to encourage students to explore their creative abilities. Students should have an interest in learning about the act of choreography through movement, improvisation, discussion and collaboration with their peers. The curriculum will cover the beginning concepts of how to choreograph a dance including the use of space, time and energy. Discussions on appropriate costuming and lighting will also be included.

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## ELECTIVE COURSES

### ***ELECTIVES CANNOT REPLACE REQUIRED COURSES***

#### ***Prerequisite: One year - any Ensemble Course***

#### **8591 INTRODUCTION TO MUSIC THEORY** (*Open to Juniors and Seniors*) **(Fall) Semester – ½ Unit**

For students who wish to major in music or related fields and for those who wish to further their understanding of the art of music. The expectations are: to prepare music students for a college theory entrance examination; to facilitate the understanding of instrumental and vocal music; to read, compose, and better understand the technicalities of the art of music; and to instill an appreciation of the art of music.

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#### ***Prerequisite: Course 8591***

#### **8595 AP MUSIC THEORY** (*Open to select Juniors and Seniors*)

**(Spring) Semester – ½ Unit**

#### **Refer to: Page 1 for Advanced Placement courses**

This course will cover the content of a first-year college musicianship class. Students will build their aural and compositional skills, as well as, develop the necessary sight singing skills to take the AP Music Theory Exam, in May. While the main emphasis is placed on vocal and instrumental music written in the Common Practice Period (c.1600-1900), as well as stylistic compositional practice of the time, other historical periods will be discussed and studied. **Students are required to take the AP Exam in May.**

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**8611 AMERICAN MUSIC HISTORY****Semester – ½ Unit**

This course is open to students of all grade levels to satisfy their Fine Arts credit requirement. It is intended to introduce students to the academic study of the **history of American popular music**, including musicological analysis and various approaches to the **historical** and socio-cultural issues regarding **American** popular musical traditions.

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**8681 DANCE HISTORY IN SOCIETY AND CULTURE****Semester – ½ Unit**

This fully academic course will study the history of dance as a vital part of human civilization from ancient times through the present. Topics that will be explored are: Dance in ancient times, Ritual, prayer, celebratory dance, Cultural dance, early Ballet (Renaissance), Romantic and Classical Ballet, Neo-classical Ballet/ American Ballet, Modern Dance Pioneers, second and third Generation Modern Choreographers, Contemporary dance, Dance studios, college programs and commercial dance (T.V., movies, etc.). Discussion, individual and group projects will be the foundation of the course.

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**8631 GUITAR** (*Open to Juniors and Seniors*)**Semester – ½ Unit**

This course will give students a skill base in guitar performance, including reading music, tablature, chords, and tuning. All styles of guitar playing will be explored. Course will meet every day for one semester.

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**8711 PIANO** (*Open to Juniors and Seniors*)**Semester – ½ Unit**

Instructions are given on all levels of performance. Emphasis is on styles and types of composition and includes ear training, sight reading and expressive interpretation. Course will meet every day for one semester.



## RELIGIOUS STUDIES DEPARTMENT

The goal of the St. John the Baptist Religious Studies program is to integrate Religious Studies into a world view which comprises God, self and others. Students engage in the study of beliefs and values which assist in their formation as mature Christians. There are specific required courses for students in grades 9-12.

**Christian Witness is required of all students in every Religious Studies class (5 hours of community service per quarter).**

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### **101 RELIGIOUS STUDIES 9 - JESUS AND THE CHURCH** **Year – 1 Unit**

This course is an overview of Catholic Christian faith using the Nicene Creed as its foundation. Topics will include the Trinity, the person of Jesus Christ in both Scripture and Tradition, the Holy Spirit as the foundation of the Church, the Church as the Body of Christ in the world, the sacraments, the communion of saints and the final judgment: heaven, hell and purgatory.

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### **211 RELIGIOUS STUDIES 10 - SCRIPTURE** **Year – 1 Unit**

Students will study the meaning of inspiration and revelation and understand how to read and interpret the Bible as the Church's book in the context of the community of faith. Beginning with God's plan for us in creation, students will study the promises of God in Old Testament as they unfold in the narrative history of Israel, culminating in the life and message of Jesus, his death and resurrection, and the gift of the Spirit as the foundation of the Church.

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### **321/322 RELIGIOUS STUDIES 11 – CATHOLIC CHRISTIAN MORALITY** **Year – 1 Unit**

#### **(321 - Semester 1 / 322 - Semester 2)**

The first semester will explore the Biblical foundations of morality including the Ten Commandments and teaching of Christ. Topics include the formation of conscience and the process of moral decision-making. The second semester will explore Church teaching on contemporary moral issues such as human sexuality, abortion and the right to life, the just war tradition and peacemaking, racism, poverty, the stewardship of creation, capital punishment, and euthanasia.

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### **431/432 RELIGIOUS STUDIES 12 – *Why Believe? Apologetics*** **Year – 1 Unit**

#### **(431 - Semester 1 / 432 - Semester 2)**

Building on previous courses in Scripture and religion, this summative course will introduce students to philosophical questions concerning the nature of God and human identity. With a curriculum designed and supported by the Augustine Institute (an accredited graduate school of Theology), this course will include a dedicated textbook and multimedia elements. Students will have opportunities for discussion and debate in a course of study that will propose and examine the claims of reason and the mysteries of faith. More than mere academic endeavor, the course will include elements drawn from the rich artistic traditions of the Church and from the witness offered by Saints across the ages.





## SCIENCE DEPARTMENT

For all Regents Science courses listed below, 1200 minutes of lab work with satisfactorily written lab reports are required in order to take the N.Y.S. Regents Examination. A student will not be admitted to the Regents Examination unless all required lab reports have been completed and accepted. **All students must complete 3 years of Science at St. John the Baptist from the following courses: Earth Science/Biology/Chemistry/Physics. In addition, Honors students must take a fourth year of Honors Science.**

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### **5102 EARTH SCIENCE REGENTS - THE PHYSICAL SETTING\*** **Year - 1 Unit**

This course offers an in-depth study of the earth, its structure, features and the forces affecting it. Topics include: Earth dimensions, rocks and minerals, earthquakes, surface processes, Earth's history, meteorology and astronomy. Interpretation of charts, graphs, and tables is an essential part of this class. Students must take the N.Y.S. *Earth Science Regents* exam in June.

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### **5103 EARTH SCIENCE HONORS -THE PHYSICAL SETTING\*** **Year - 1 Unit** (Open to select Freshmen)

**Refer to: Page 1 for Honors Courses**

This course offers an in-depth study of the earth, its structure, features and the forces affecting it. Topics include: Earth dimensions, rocks and minerals, earthquakes, surface processes, Earth's history, meteorology and astronomy. Interpretation of charts, graphs, and tables is an essential part of this class. The course includes the N.Y.S. *Earth Science* curriculum and additional topics. Students must take the N.Y.S. *Earth Science Regents* exam in June.

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### **5202 BIOLOGY REGENTS - THE LIVING ENVIRONMENT\*** **Year - 1 Unit**

This is a full year course that should develop basic scientific concepts, stimulation of inductive reasoning, continued development of technical skills, and an understanding of biological processes and principles. All phases of Biology are covered according to the New York State Living Environment Core Curriculum. Students must take the *Living Environment Regents* exam in June.

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### **5203 BIOLOGY HONORS - THE LIVING ENVIRONMENT\*** **Year - 1 Unit**

***Note: Course may be taken by incoming Freshmen who are enrolled in an Earth Science Honors program in 8<sup>th</sup> Grade and score a 90% or higher on the Earth Science Regents exam.***

**Refer to: Page 1 for Honors Courses**

This full year course is designed for highly motivated students and strives to develop basic scientific concepts, stimulation of inductive reasoning, continued development of technical skills, and an understanding of biological processes and principles. All phases of Biology are covered according to the New York State Living Environment Core Curriculum. Students must take the *Living Environment Regents* exam in June.

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### **5301 CHEMISTRY - THE PHYSICAL SETTING\*** **Year - 1 Unit**

This course closely follows the New York State Chemistry Core Curriculum, but excludes certain topics to allow sufficient time to practice concepts. This course covers measurement, types and states of matter, chemical reactions, stoichiometry, gases, heat and energy, molar quantities and atomic structure.

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***Prerequisite: Passing score on the Living Environment Regents***

**5302 CHEMISTRY REGENTS- THE PHYSICAL SETTING\***

**Year - 1 Unit**

This course presents the unifying principles of Chemistry utilizing some mathematical equations. The course content is based on the NYS Chemistry core curriculum. Laboratory activities complement and support the lecture topics. Students must take the *Chemistry Regents* exam in June.

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**5303 CHEMISTRY HONORS - THE PHYSICAL SETTING\***

**Year – 1 Unit**

**Refer to: Page 1 for Honors Courses**

A fast paced and more challenging course dealing with sophisticated concepts in Chemical mathematics, higher level electron configurations and the spatial relationships in atoms, molecules, and crystals. This course exceeds basic N.Y.S. Regents requirements and is intended for students with a strong interest in science. Students should also be proficient in math. Students must take the *Chemistry Regents* exam in June.

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***Prerequisite: Passing score on the Chemistry Regents***

**5402 PHYSICS REGENTS - THE PHYSICAL SETTING\***

**Year - 1 Unit**

This course gives students a thorough understanding of the basic concepts of Physics. It is based on the NYS Physical setting/Physics core curriculum. It stresses the study of energy and its relationship with matter, by examining constructed real-life examples taken from the areas of mechanics (kinematics and statics), energy, electricity & magnetism, wave phenomena (sound & light), and the composition of atoms and their nuclei. A strong mathematical background is required. Students must take the *Physics Regents* exam in June.

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**5403 PHYSICS HONORS - THE PHYSICAL SETTING\***

**Year - 1 Unit**

**Refer to: Page 1 for Honors Courses**

Offered to students who are highly motivated, this course deals with the study of energy and its relationship to matter and is subdivided into mechanics, magnetism, wave phenomena, electricity and atomic and nuclear physics. A strong mathematical background is required. Students must take the *Physics Regents* exam in June.

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**SCIENCE ELECTIVES  
ELECTIVES CANNOT REPLACE REQUIRED COURSES**

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**Prerequisite: Course 5301 or 5302**

**5441 PHYSICS – THE PHYSICAL SETTING\***

**Year - 1 Unit**

This course will introduce general Physics concepts of mechanics, energy, electricity & magnetism, and waves by means of interesting applications to prepare students to observe and use physics in their own lives. Basic Physics principles and the use of the Scientific Method are used in defining and solving problems in both classroom and lab environments. The course will also devote time to developing and reinforcing the necessary mathematical skills required. Students should have a good background in Algebra.

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**5411 ANATOMY AND PHYSIOLOGY \* (Open to Juniors and Seniors)**

**Semester ½ Unit**

A course designed to give students a foundation in the study of the structure (Anatomy) and function (Physiology) of the human body. Various body systems will be studied including digestive, respiratory, circulatory lymphatic, excretory, and endocrine, with an emphasis on their interrelatedness and interdependence. The body's ability to maintain homeostasis will be examined, as well as possible diseases and disorders that may result when this balance is disrupted.

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**5421 FORENSIC SCIENCE (Open to Seniors)**

**Semester ½ Unit**

Forensic Science is the application of science to the law. This course will focus on the application of science and technology to the collection and analysis of physical evidence of a crime scene. Topics include; fingerprinting, blood, hair and fiber analysis, Anthropology, and Entomology.

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**5431 MARINE SCIENCE\* (Open to Juniors and Seniors)**

**Semester ½ Unit**

This course combines the study of the biology and chemistry of the world's oceans. It covers the topics of marine life zones and habitats, ocean properties, bony fish and sharks, marine mammals, invertebrates, coral reef ecosystems, and oceanography. Focus is on how marine organisms interact with each other and their physical environment, with specific emphasis on Long Island ecosystems.

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**Prerequisite: Courses 5202 and 5302**

**5504 ADVANCED BIOLOGY- SJU\* (Open to Seniors)**

**Year - 1 Unit**

**FUNDAMENTALS OF BIOLOGY I (4 SJU Credits) Semester 1**  
**FUNDAMENTALS OF BIOLOGY II (4 SJU Credits) SSemester 2**

**Refer to: Page 1 for Honors Courses and SJU Requirements on page 5 and 6**

Advanced Biology follows the curriculum of the Fundamentals of Biology Fall and Spring courses at St. John's University with special emphasis on Biochemistry, Cell Physiology, and Molecular Genetics in the Fall, and Anatomy and Physiology, Cell Division, and Mendelian Genetics in the Spring. Students may obtain college credit through St. John's University. It is recommended that students have a strong background in Chemistry.

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*Prerequisite: Course 5202 and 5303*

**5525 AP BIOLOGY\***

**Year – 1 Unit**

**Refer to: Page 1 for Advanced Placement Courses**

This course focuses on the AP Biology curriculum, with special emphasis on Biochemistry, including molecular genetics, cell respiration, and photosynthesis in the first semester, and human physiology and genetics in the second semester. Lab work will also be stressed and good attendance is a must. Several independent assignments, including a summer assignment, will be part of the requirements. Specific review for the AP exam will be conducted outside of class. Students are required to take the AP Exam in May.

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*Prerequisite: Course 5302 or 5303*

**5515 AP CHEMISTRY\***

**Year - 1 Unit**

**Refer to: Page 1 for Advanced Placement Courses**

This course covers the fundamental principles of Chemistry and is equivalent to one full year of college level General Chemistry I and II. The first semester focuses on stoichiometry, thermodynamics, electron structure, the states of matter, and chemical bonding. The second semester focuses on kinetics and equilibrium, acid/base chemistry and electrochemistry. This course emphasizes the use of analytical AND mathematical problem solving. Students should have already taken a lower level chemistry course and should be proficient in mathematical problem solving. All students are required to take the AP exam in May.

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*Prerequisite: Course 5302 and 4332 or 4333*

**5535 AP PHYSICS \***

**Year – 1 Unit**

**Refer to: Page 1 for Advanced Placement Courses**

This course is equivalent to a first semester college course in algebra-based Physics. It covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power. The ability to develop and use Physics knowledge by applying it to the practice of scientific inquiry and reasoning will also be stressed. Students are required to take the AP Exam in May.

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**5545 AP ENVIRONMENTAL SCIENCE\***

**Year - 1 Unit**

The course teaches students how to identify and analyze natural and anthropogenic environmental issues, evaluate the consequences and propose viable solutions to resolve or mitigate them. Major topics include agriculture, mining, urbanization, pollution, and energy production. All Students are required to take the AP Exam in May.

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## THE GENESIS PROGRAM SCIENTIFIC RESEARCH

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### 5600 METHODS/PROCESS

Year ½ Unit

#### Level 1- First Year

Students learn the methodology associated with and the process of conducting scientific research. Students will learn how to design a controlled experiment, the components of a scientific research paper, as well as review and critique other research studies. In addition, they will learn how to write in APA style format and how to use statistics to analyze experimental data. The level culminates with students creating a comprehensive literature review of the topic they have chosen to study and research. **Culminating Activity- Literature Review**

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### 5601 ORIGINAL RESEARCH/INITIAL EXPERIMENTATION/MENTOR ACQUISITION

Year ½ Unit

#### Level 2- Second Year

Students begin the process of conducting their own research. When applicable, students will apply to work with professionals in their area of inquiry. In this phase students will conduct their initial experiments/surveys and create a presentation of their original work. **Culminating Activity- Intermediate Level Presentation of Original Research.**

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### 5602 CONTINUED RESEARCH/ANALYSIS AND CONCLUSIONS/COMPETITION

Year ½ Unit

#### Level 3- Third Year

Students will continue and refine their research. Once their project is completed, they will construct a report summarizing their motivation, methods and conclusions. They will then present it to both the school community and, if they are chosen, submit their work to a variety of interscholastic competitions. **Culminating Activity- Advanced/Competition Level Presentation, and/or publication in an academic journal.**

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**SJB ENGINEERING PROGRAM  
PROJECT LEAD THE WAY (PLTW)**

This program empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. Through both individual and collaborative team activities, projects, and problems, students will develop solutions as they practice common design and development protocols such as project management and peer review. Students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Enrollment into the program is based on student interest, motivation, and academic potential.

Students may receive 3 college credits for each course from Rochester Institute of Technology (<https://www.rit.edu/pltw/>) upon completion of each course's required End of Course (EoC) exam and the approval of their score by RIT (appropriate fees apply).

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**5621 PLTW - ENGINEERING ESSENTIALS** (*Open to Freshman and Sophomores*)      **Year - 1 Unit**

Students explore the breadth of Engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve the safety and well-being of local citizens.

*Note: It is highly recommended student has already completed Regents Algebra. This is a Regents weighted course (1.03).*

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***Prerequisite: course 5621***

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**5622 PLTW - INTRODUCTION TO ENGINEERING DESIGN (IED)** *This course will count as an art credit or as SJB Computer credit. (Open to Sophomores and higher)*      **Year - 1 Unit**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and constructive materials. They learn how to maintain an engineering notebook to document their work using detailed sketches and mechanical drawings.

*Note: PLTW Teacher recommendation required. This is a Regents weighted course (1.03)*

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***Prerequisite: Course 5621***

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**5623 PLTW - PRINCIPLES OF ENGINEERING (POE)** *This course will count as SJB Computer credit. (Open to Sophomores and higher)*      **Year - 1 Unit**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms; the strength of materials and structures; automation; and motion. Students will further develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

*Note: PLTW Teacher recommendation required. This is a Regents weighted course (1.03).*

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***Prerequisite: Course 5622 or 5623***

**5624 PLTW - CIVIL ENGINEERING AND ARCHITECTURE (CEA)** *This course will count as SJB Computer credit. (Open to Juniors or Seniors)* **Year - 1 Unit**

Students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using current 3D architectural Design and Modeling software to represent and communicate their solutions. Students will develop skills in engineering calculations, technical representation, and documentation of design solutions according to accepted technical standards.

*Note: PLTW Teacher recommendation required. This is a Regents weighted course (1.03)*

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***Prerequisites: Course 5622 or 5621 and 5623***

**5628 PLTW - Engineering Design & Development (EDD)** *(Open to Juniors or Seniors)* **Year - 1 Unit**

This is a capstone engineering course where students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, then create and test their solution prototype.

While progressing through the engineering design process, and working closely with experts, students will continue to hone their organizational, interpersonal and communication skills, creative and problem-solving abilities, and understanding of the design process. Student teams will present and defend their original solution to an outside panel.

*Note: PLTW Teacher recommendation required. This is an Honors weighted course (1.07)*



## SOCIAL STUDIES DEPARTMENT

*Four years of Social Studies are required for graduation: Global History and Geography I and II, U.S. History and Government, Economics, and Participation in Government. All students must take Regents Exams in Global History and U. S. History.*

### **2102 GLOBAL HISTORY & GEOGRAPHY I REGENTS\***

**Year - 1 Unit**

In addition to the development of content, course work will emphasize the ability to analyze, to draw conclusions and to develop generalizations based upon required information and data. Students will explore and interpret data in many forms (i.e. charts, graphs, cartoons, maps, primary and secondary documents, etc.) and develop the written and verbal skills necessary to express concepts and new ideas related to Global History and Geography.

### **2103 GLOBAL HISTORY & GEOGRAPHY I HONORS\***

**Year - 1 Unit**

Open to highly motivated freshmen, this course is designed to develop and cultivate critical thinking skills, effective analytical reasoning, multi-media research, group interaction and discussion. A major goal of the course is to develop effective analytical writing skills applicable to historical documents. The course offers the skills foundation for continued advanced studies. *Placement in this course is based on scores attained on the entrance examination and eighth grade Social Studies.*

### **2105 ADVANCED PLACEMENT WORLD HISTORY – MODERN**

**Year – 1 Unit**

#### **Refer to: page 1 for Advanced Placement Courses**

Open to Freshman only, students will study the cultural, economical, political and social developments that have shaped the world from 1200CE to the present. Students will analyze texts, visual sources and other historical evidence and write essays expressing historical arguments. This course is equivalent to a college-level course on modern world history.

### **2202 GLOBAL HISTORY & GEOGRAPHY II REGENTS\***

**Year - 1 Unit**

This course continues to emphasize the ability to analyze, to draw conclusions and to develop generalizations. Sophomores explore and interpret data through the use of charts, graphs, cartoons, maps, etc. Written skills necessary to express concepts and new ideas are demonstrated through term papers and/or projects. *Students must take the Global History & Geography Regents exam in June.*

### **2203 GLOBAL HISTORY & GEOGRAPHY II HONORS\***

**Year - 1 Unit**

Open to highly motivated sophomores, this course continues to develop the students' ability to think critically and reason analytically through the use of group interaction and discussion. In addition, students evaluate and synthesize interpretations of history and apply them to actions in the modern world. Research and writing skills are demonstrated through term papers and/or projects. *Students must take the Global History & Geography Regents Examination in June.*



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**2205 ADVANCED PLACEMENT EUROPEAN HISTORY\*****Year - 1 Unit****Refer to: page 1 for Advanced Placement Courses**

Open to highly motivated students, this course studies European history since 1450. It introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. This course, through analysis of primary and secondary resources and the development of historical writing skills, prepares the student for the *Advanced Placement Examination*, as well as the challenges of college-level work. *Students must take the Advanced Placement Examination for possible college credit in May and Global History & Geography Regents Examination in June.*

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**2302 U.S. HISTORY AND GOVERNMENT REGENTS\*****Year – 1 Unit**

In addition to a survey of American History, course work will emphasize the ability to analyze, to draw conclusions and to develop generalizations based upon required information and data. Juniors explore and interpret data in many forms (i.e. charts, graphs, cartoons, maps, primary and secondary documents, etc.) and develop the written and verbal skills necessary to express concepts and new ideas. *Students must take the U.S. History & Government Regents exam in June.*

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**2303 U.S. HISTORY AND GOVERNMENT HONORS\*****Year – 1 Unit****Refer to: page 1 for Honors Courses**

In addition to a survey of American History, the course work will emphasize the ability to analyze, to draw conclusions and to develop generalizations based upon required information and data. Analysis of Primary and Secondary resources and development of writing skills and verbal skills necessary to express concepts and new ideas are developed. *Students must take the U.S. History & Government Regents exam in June.*

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**2305 ADVANCED PLACEMENT U.S. HISTORY AND GOVERNMENT\*****Year – 1 Unit****Refer to: page 1 for Advanced Placement Courses**

This course, through analysis of primary and secondary resources and the development of historical writing skills, prepares the student for the *Advanced Placement Examination*, as well as the challenges of college level work. *Students must take the Advanced Placement Examination for possible college credit in May and U.S. History & Government Regents Examination, in June.*

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**2402 ECONOMICS AND ECONOMIC DECISION MAKING\*****Semester - ½ Unit**

This course provides an introduction to economics, economic systems, supply and demand, the federal reserve system, monetary policy, forms of economic enterprise, fiscal policy, inflation, unemployment, business cycles, problems of income distribution and activities of the stock market. The course is designed to promote economic literacy, to further develop critical thinking skills and to develop the skills needed to make sound economic decisions. *Required for All Seniors (unless they select A.P. Economics)*

This required course details the working of the government and a citizen's potential participation at the various levels of government. Students will discuss the branches of government and how they interact with each other and the voters. Federal, state, and local government, checks and balances, the Amendment process, and detailed discussions of the various Constitutional issues relating to freedoms, individuality, and due process. Students will do governmental research, view various government meetings, and discuss various governmental issues from the recent past. There will be one project per quarter and a final research project as a final assessment.

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**SOCIAL STUDIES ELECTIVES**  
***ELECTIVES CANNOT REPLACE REQUIRED COURSES***  
**Exceptions: course 2504/2525/2535 (see course description)**

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**2501 INTRODUCTION TO SOCIOLOGY\***

**Semester - ½ Unit**

Why do we do the things we do? How have we become the individuals we are today? What happened to my friends and family? These questions and many more about the human experience are the focus of this class. Students are presented with preliminary information regarding critical thinking, culture, social structure and socialization and then invited to build off that knowledge for their own growth and development as well as their perspective on the world in which they live. A research project will be assigned.

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**2511 CIVIL LAW\***

**Semester - ½ Unit**

This course concerns various aspects of civil law, constitutional rights, and the court system. This is a practical class and topics covered help students' future dealings with society and the practical world. Topics include: contracts, accidental lawsuits, real estate law, business law, credit, wills, trust & estate planning, marriage, and child custody laws. Units include: torts, consumer law, family law, housing law, and contracts. This course covers the common legal events most students will encounter during their lives.

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**2541 CRIMINAL LAW \***

**Semester – ½ Unit**

This elective will discuss the workings of the American Judicial system, the criminal justice system, the courts, and the corrections system in the United States today. Students will discuss various criminal law situations, They will research and investigate both media coverage and court coverage for various well known criminal cases. Students will be required to research criminal topics and write about criminal situations and write reports based on their research. The course will have quarterly projects and a final assessment based on their studies of the criminal world.

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**2551 HISTORY OF LONG ISLAND \***

**Semester - ½ Unit**

In this course students will study Long Island from the native Indian inhabitants and early Dutch and English settlements to present day suburbs and the New York metropolis. The primary focus will be an examination of the ethnic, cultural, political, social, and religious diversity that developed over time and gave Long Island its identity. Students will develop a deeper understanding of communities in which they live and understand the role that they played in history. The course will include presentations, local research and trips to local historic sites.

<b>2504 SOCIOLOGY HONORS - SJU*</b>		<b>Year - 1 Unit</b>
<b>INTRODUCTION TO SOCIOLOGY (3 SJU Credits)</b>	<b>1<sup>st</sup> Semester - ½ Unit</b>	
<b>SOCIAL PROBLEMS (3 SJU Credits)</b>	<b>2<sup>nd</sup> Semester - ½ Unit</b>	

**Refer to: Page 1 for Honors Courses and SJU Requirements on page 5 and 6**

This is a College-Level Course designed for the advanced high school student interested in exploring who and how we answer the question “What shall we do and how shall we live?” This course studies human interaction through an organized scientific manner, examining the influence of society, groups, institutions, and culture on the individual and how it affects our ways of thinking, feeling, acting and communicating. Students will be expected to apply critical thinking skills in the exploration of social problems/issues assisted with dating, marriage, sexuality, divorce, violence, war, substance abuse, poverty and prejudice. Students come away with not only an expansive bank of knowledge but new perspectives in which to view themselves in a Global Society. **It can be taken in place of the required Participation in Government course (2422).**

<b>2525 ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITCS *</b> (Open to Select Juniors and Seniors)	<b>Year - 1 Unit</b>
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**Refer to: page 1 for Advanced Placement Courses**

Through analysis of primary and secondary resources, students will explore the role and workings of the United States Government from its founding to the present day. Writing skills, government interaction, and government management will be explored. All tests, projects and primary readings will be on the college level. This course will prepare the student for the Advanced Placement exam, as well as the challenges of college level work. **It can be taken in place of the required Participation in Government course (2422).** *Students must take the Advanced Placement Examination for possible college credit in May. A final assessment will be assigned.*

<b>2535 ADVANCED PLACEMENT ECONOMICS* (Open to Select Seniors)</b>	<b>Year - 1 Unit</b>
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**Refer to: page 1 for Advanced Placement Courses**

This is a two-semester course that encompasses both Micro and Macro Economics. **AP Micro Economics:** looks at the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. **AP Macro Economics:** studies the principle of economics that apply to an economic system as a whole. Emphasis is placed on the study of national income and also develops students’ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

**It can be taken in place of the required Economics (2402) & Participation in Government (2422) courses. Students are required to take, at least, one Advanced Placement Examination in Micro Economics or Macro Economics for possible college credit in May. They may take both exams. A final assessment will be assigned.**

<b>2545 ADVANCED PLACEMENT PSYCHOLOGY* (Open to Select Juniors and Seniors)</b>	<b>Year - 1 Unit</b>
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This course is designed to investigate the scientific study of human and animal behavior. Students will be asked to connect readings to practical life situations and current events. The purpose of psychology is to help us better understand the world in which we live. This introductory course seeks to introduce students to psychological terminology and to help them to ask and potentially begin to answer questions about human and animal thought and behavior. The topics covered in this course will be history, theories, biological bases of behavior, sensation and perception, consciousness, learning and cognition, development, personality, motivation and emotion, disorders and treatment and social psychology. The course will be conducted at a college level and in addition to serving as an introduction to the field of psychology. **Students must take the Advanced Placement Examination for possible college credit in May. A final assessment will be assigned.**



## **IMPORTANT NCAA INFORMATION FOR ATHLETES**

### **NCAA approved courses at SJB:**

All World Language Courses  
All Social Studies Courses  
All English Courses EXCEPT:  
    Sci-Fi Fantasy Literature (#1611)  
    Sports Literature (#1602)  
    Word Power (#1581)  
All Science Courses EXCEPT:  
    Forensics #5421  
All Mathematics Courses EXCEPT:  
    Analyzing Financial Decisions (#4441)  
    Business Finance (#4442)

### **NCAA denied courses at SJB:**

All Art Courses  
All Computer Courses  
All Performing Arts Courses  
All Religious Studies Courses  
All Physical Education Courses except Health