

## GENERAL INFORMATION 2019-2020

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.

**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 college 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* 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](http://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.

### January-February

- Distribution of 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.

### 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 (**WF**)



## GRADUATION REQUIREMENTS

All students must complete a minimum of 29 units at S.J.B. 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.

### COURSE WEIGHTING\*

Advanced Placement	1.11
<i>St. John's University</i> Courses and all Honors Classes	1.07
<i>Molloy College/Adelphi University</i> 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.*

### COURSE GRADING

#### Full-Year Courses:

Final Grade =  $\{.225(Q1+Q2+Q3+Q4) + .1(\text{Final Exam}^{**})\}$  **\*\*Regents Exam, for courses culminating in a Regents Exam**

#### Full-Year Courses (no Final Exam):

Final Grade =  $(Q1+Q2+Q3+Q4)/4$

#### Semester Courses:

Final Grade =  $.4(Q1+Q2) + .2(\text{Final Exam})$

### 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 College, 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 College* – **\$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.



## COLLEGE PROGRAMS

### ***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 1000 (or 100 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 1000 (or 100 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  
Introduction to Photography (*Art 1085*) 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 COLLEGE CREDIT:**

Statistics (*Math 115JB*) 3 credits  
Pre-Calculus (*Math 118JB*) 3 credits  
Intro.to Calculus/Calculus I (*Math 221JB*) 4 credits

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

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.

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).***



THE ART DEPARTMENT

**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.

ART ELECTIVES  
ELECTIVES CANNOT REPLACE REQUIRED COURSES

**7501 PAINTING**

*Open to Juniors and Seniors*

***Prerequisite: Course 7201***

**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.

**7504 DRAWING EXPERIMENTS SJU**

*Open to select Juniors and Seniors*

***Prerequisite: Course 7201  
(3 SJU Credits)***

**Semester - 1 Unit  
(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.

**7511 DRAWING**

*Open to Juniors and Seniors*

***Prerequisite: Course 7201***

**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.

**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.

**7524 INTRO TO PHOTOGRAPHY SJU**

*Open to Juniors and Seniors*

**(3 SJU Credits)**

**Semester - 1 Unit  
(Double Period Class)**

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

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

This is a college level course introducing students to the tools, techniques and creative aspects of Black and White film photography. Students will be developing their own film and printing pictures in a darkroom.

**7531 PHOTOGRAPHY II**

*Open to Juniors and Seniors*

***Prerequisite: Course 7521 or 7524***

**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.

**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.

**7571 INTRODUCTION TO GRAPHIC ART**

**Semester ½ Unit**

This course introduces the student to the basic programs used in computer generated art and design through the use of *Adobe CS5 Suite*. Emphasis is placed on original and creative use of technology in the visual arts as a design tool. Both fine art and commercial art projects will be produced using elements and principles of design.



## THE COMPUTER SCIENCE DEPARTMENT

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### 6221 INTRODUCTION TO COMPUTER SCIENCE

Semester ½ Unit

*Open to Freshmen\**

#### **SJB requirement for graduation**

This course is designed to offer an introduction to Computer Science and the Google apps for educational software. Students will learn the basics of Computer Programming along with the basics of Computer Science. The course emphasizes computational thinking and helps develop the ability to solve complex problems. The course introduces students to the inner hardware of technology and various software.

*\*Certain programs may require freshmen to postpone this requirement*

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### COMPUTER ELECTIVES

#### ELECTIVES CANNOT REPLACE REQUIRED COURSES

**Exception:** Juniors or Seniors who did not take course #6221 as Freshmen are eligible to substitute any Computer Science elective to fulfill the SJB Computer Science requirement.

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### 6535 AP COMPUTER SCIENCE PRINCIPLES

Year - 1 Unit

*Open to select Juniors and Seniors*

#### **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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### 6541 DIGITAL MEDIA

Semester ½ Unit

*Open to Juniors and Seniors*

This course teaches students how to become effective at creating, accessing, analyzing, and evaluating various digital media through instruction in media production skills and by applying the latest innovations in the development of media content using *Adobe Creative Suites* with programs such as *Photoshop*.

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### 6551 WEBSITE DEVELOPMENT AND DESIGN

Semester ½ Unit

*Open to Juniors and Seniors*

Students will learn to create websites, using programs such as *HTML*, the programming language of the Internet, and *Dreamweaver*, an object oriented web design program. Students will study the history and development of the World Wide Web, social media such as Facebook and Twitter, and explore how e-commerce and mobile computing work.

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### 6621 COMPUTER GENERATED IMAGERY (CGI)

Semester ½ Unit

*Open to Juniors and Seniors*

Computer generated imagery is an integral part of mobile applications, website and game design, e-commerce, animation, and more. Using *Adobe Creative Suite* programs and other tools, students will learn the basics of animation and CGI technology.

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### 6631 INTRODUCTION TO AUTO CAD AND ROBOTICS

Semester ½ Unit

*Open to Juniors and Seniors*

Students begin the course using *Auto CAD 3-D* modeling software to learn the basics of *Computer Aided Design (CAD)* used in such fields as engineering, architecture, electronics and consumer products. In addition, students will work with various online software such as Tinker cad to create 3-D projects to be printed on 3-D printers.







Dickinson

THE ENGLISH DEPARTMENT



Shakespeare

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

1101 ENGLISH 9 REGENTS LA\* Year - 1 Unit

Open to select Freshmen

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

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.

1103 ENGLISH 9 HONORS\* Year - 1 Unit

Open to select Freshmen

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.

1201 ENGLISH 10 REGENTS LA\* Year - 1 Unit

Open to select Sophomores

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.

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. Growth in the areas of research, spelling, vocabulary, and grammar will also be areas of concentration.

1203 ENGLISH 10 HONORS\* Year - 1 Unit

Open to select Sophomores

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.

1215 AP SEMINAR\* Year - 1 Unit

Open to Select Sophomores and Juniors

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.

1301 ENGLISH 11 REGENTS LA\* Year - 1 Unit

Open to select Juniors

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.

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 Students are required to take the Common Core English Language Arts Regents Examination in June. A major research paper is required.

*Open to select Juniors***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.

1305 ADVANCED PLACEMENT ENGLISH - *ENGLISH LITERATURE AND COMPOSITION\**

Year – 1 Unit

*Open to select Juniors***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 answer essay questions of varying lengths and do both short and long papers, 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.***

## 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 paper.

## 1404 ENGLISH 12 HONORS - SJU\*

Year – 1 Unit

*Open to select Seniors***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*****FIRST YEAR COLLEGE WRITING***

(3 SJU Credits)

Semester 1

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.

***STUDY OF BRITISH LITERATURE***

(3 SJU Credits)

Semester 2

***Prerequisite: First Year College Writing***

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.

1405 ADVANCED PLACEMENT ENGLISH – *ENGLISH LANGUAGE AND COMPOSITION\**

Year - 1 Unit

*Open to select Seniors***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**

## 1422 LITERATURE OF CRIME AND MYSTERY\*

Semester – ½ Unit

*Open to Juniors and Seniors*

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.

## 1501 COMMUNICATIONS

Semester – ½ Unit



*Open to Juniors and Seniors*

Students will study interpersonal skills, group dynamics, verbal communication, and body language used in life as well as the development and impact of the mass media on society. Newspapers, magazines, advertising, public relations, radio and television are examined and discussed with emphasis on identifying the effect of different techniques used by communicators. Practical applications, audio-visual presentations, and reporting will be required.

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**1521 FILM STUDY\*** Semester – ½ Unit

*Open to Juniors and Seniors*

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\*** Semester – ½ Unit

*Open to Juniors and Seniors*

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\*** Semester – ½ Unit

*Open to Juniors and Seniors*

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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**1571 CONTEMPORARY FICTION\*** Semester – ½ Unit

*Open to Juniors and Seniors*

This course is for students interested in reading contemporary novels that have been published from the 1990's to the present. An essential part of the course is that it will instill and rekindle a love for reading. This will provide an opportunity for students to immerse themselves in literature that they believe is relevant to their lives. Students have the opportunity to discuss and challenge contemporary issues through the literary analysis of selected novels.

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**1581 WORD POWER – STANDARDIZED TEST PREP** Semester – ½ Unit

*Open to Juniors and Seniors: **recommended for juniors***

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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**1621 VIDEOBROADCASTING & PRODUCTION I** Semester – ½ Unit

*Open to Juniors and Seniors*

This course investigates the theoretical and practical aspects of video production. Classroom study is enhanced by hands-on experience in the school TV studio. Students work in groups to learn the different roles in the production field (Producer, Director, Editor, and Camera Operator). Students plan and execute all facets of the TV production process through creating several group projects (a music video, a documentary, and a Super Bowl commercial) which are submitted to local film festivals.

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**1631 VIDEOBROADCASTING & PRODUCTION II** Semester – ½ Unit

*Open to Juniors and Seniors*

***Prerequisite: Video Broadcasting & Production I***

Using the skills acquired in Video Broadcasting I, this course focuses on the development of all elements necessary to create a short-length film. Each student is required to write and submit a treatment for an original script which includes a plot synopsis, character analysis, and dialogue. One script will be selected to be fully produced by the class and then submitted to local film festivals.

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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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**1505 AP RESEARCH\*** *Prerequisite: Course 1215* Year – 1 Unit

*Open to Select Juniors and Seniors*

***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

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*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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**9621 HEALTH EDUCATION\*** Semester – ½ Unit  
*Open to Freshmen* **Required by New York State for Graduation**

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, softball, baseball, European handball, football, tennis, badminton, track & field, yoga, fitness and flag football.

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**9411/9431 Boys & 9421/9441 Girls** **PHYSICAL EDUCATION 11/ 12** Year – ½ Unit

Students choose their 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 9/10** Year – ½ Unit  
*Open to students enrolled in Earth Science or Biology*

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, Yoga 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 11/12** Year – ½ Unit  
*Open to students enrolled in Chemistry-level Science or Higher*

**Prerequisite: Dance I**

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, Yoga 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.

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

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

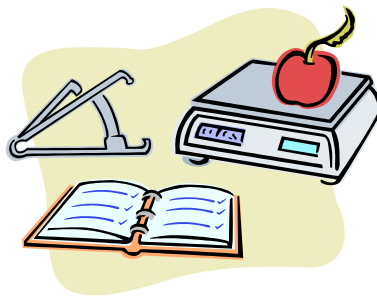
This course teaches students, who are interested in sports related, and other health professions, hands-on skills and knowledge relevant to those careers. This course can be taken for college credit through **Adelphi University**. *Student must meet requirements of St. John the Baptist and Adelphi University.* This course does not replace the required Physical education courses.

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

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.

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THE 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.

In order to advance to Level II of Spanish, Italian or French, incoming freshmen must take the Checkpoint "A" Exam or the St. John's Placement exam and achieve a grade of 93% or higher.

3122 FRENCH I REGENTS\*

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.

3222 FRENCH II REGENTS\*

3242 ITALIAN II REGENTS\*

3212 SPANISH II REGENTS\*

Prerequisite: Level I

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.

3322 FRENCH III REGENTS\*

3342 ITALIAN III REGENTS\*

3312 SPANISH III REGENTS\*

Prerequisite: Level II

Year -1 Unit (for each course)

Level III - places an emphasis on the four areas of language: 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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**3132 LATIN I REGENTS**

Introduction to the fundamentals of Classical language: listening, reading, and translation skills. There is a strong emphasis on proper grammar and syntax. Various aspects of Roman culture will be covered throughout the course.

**3232 LATIN II REGENTS**

**Prerequisite:** *Successful completion of Latin I Regents*

More complex grammatical structures of Classical language are covered along with further exploration of Roman culture. Upon completion of Latin II, students will have an advanced command of a broad range of vocabulary; the structures needed for translation of complex texts; and an appreciation of Roman culture.

**3332 LATIN III REGENTS**

**Prerequisite:** *Successful completion of Latin II Regents*

This course continues to develop the areas of Classical language study: listening, reading, and translating. Correct grammar usage, mechanics of complex texts, and translation style are stressed. Students continue to explore different aspects of Roman culture. Latin is translated in the classroom very often throughout the school year. All students are required to take the *Checkpoint "B" Exam*, in June.

**3522 FRENCH IV REGENTS\***

**3542 ITALIAN IV REGENTS\***

**3512 SPANISH IV REGENTS\***

Year - 1 Unit (for each course)

**Prerequisite:** *Successful completion of French/ Spanish /Italian III course & Checkpoint 'B' Exam.*

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.

**3513 SPANISH IV HONORS \***

Year - 1 Unit

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

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

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.

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

Year - 1 Unit

**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)*

**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 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 in *Spanish* and students are required to speak *Spanish* in class.

**3501 AMERICAN SIGN LANGUAGE I \***

Semester - ½ Unit

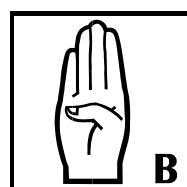
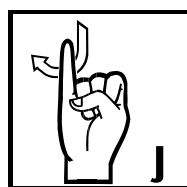
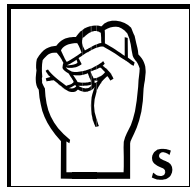
This course is designed to teach basic conversational skills in *American Sign Language* and awareness of various aspects of deafness. This course will present the student with the structure, conversational vocabulary and grammatical principles of *ASL* while also focusing on the historical, cultural,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

**3511 AMERICAN SIGN LANGUAGE II \***

**Prerequisite:** Course 3501

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.



## THE 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.

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**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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**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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**4232 GEOMETRY REGENTS \*** **Year - 1 Unit**

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

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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**4233 GEOMETRY HONORS\*** **Year - 1 Unit**

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

***Prerequisite: Successful completion Geometry***

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

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

***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.**

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### MATHEMATICS ELECTIVES ELECTIVES CANNOT REPLACE REQUIRED COURSES

**4431 FINITE MATH\*** **Year - 1 Unit**

***Prerequisite: Course 4341***

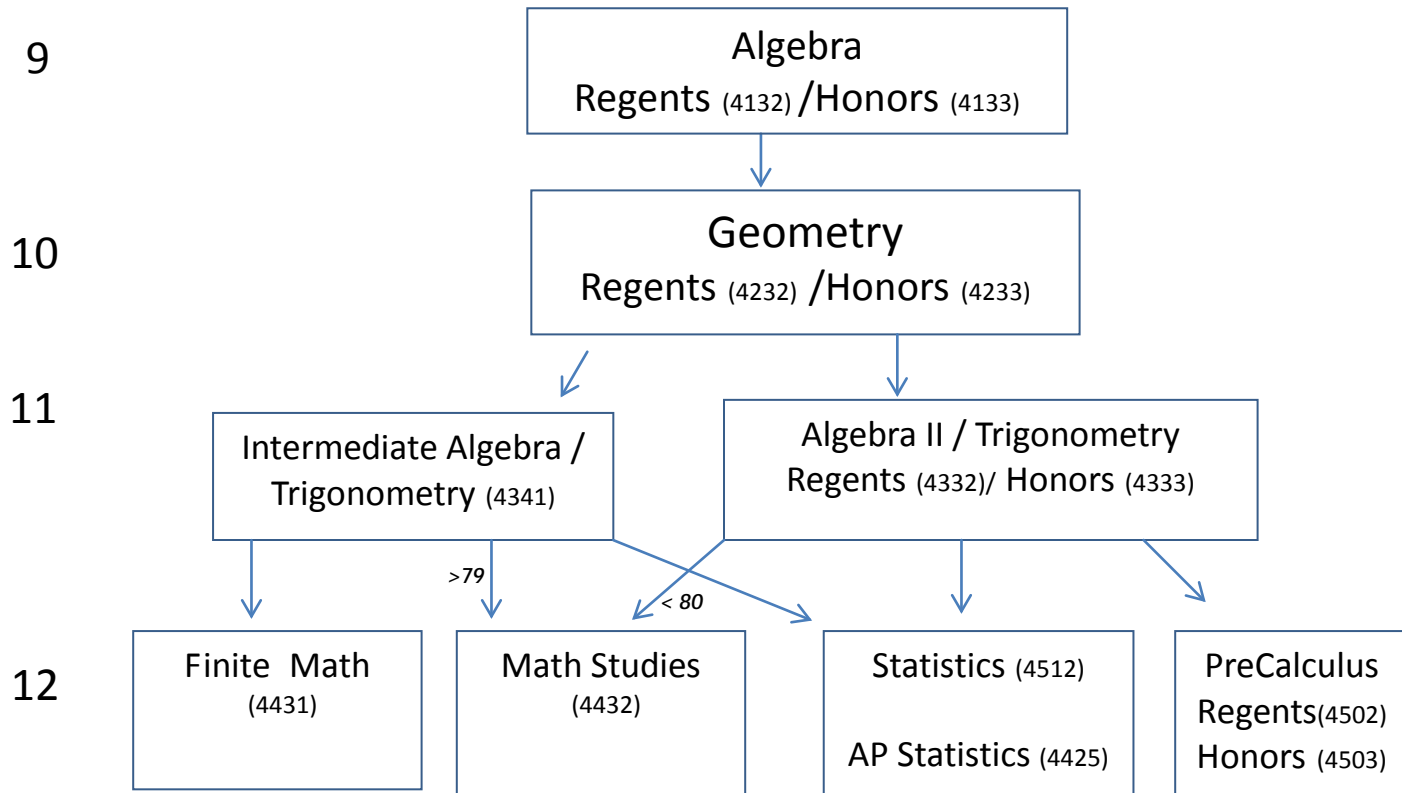
This course is for students who may not be majoring in a math or science related field in college. It will focus on developing mental math skills and usage as well as the use of the graphing calculator for analysis of mathematical theories and their applications. This will allow the non-math major to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

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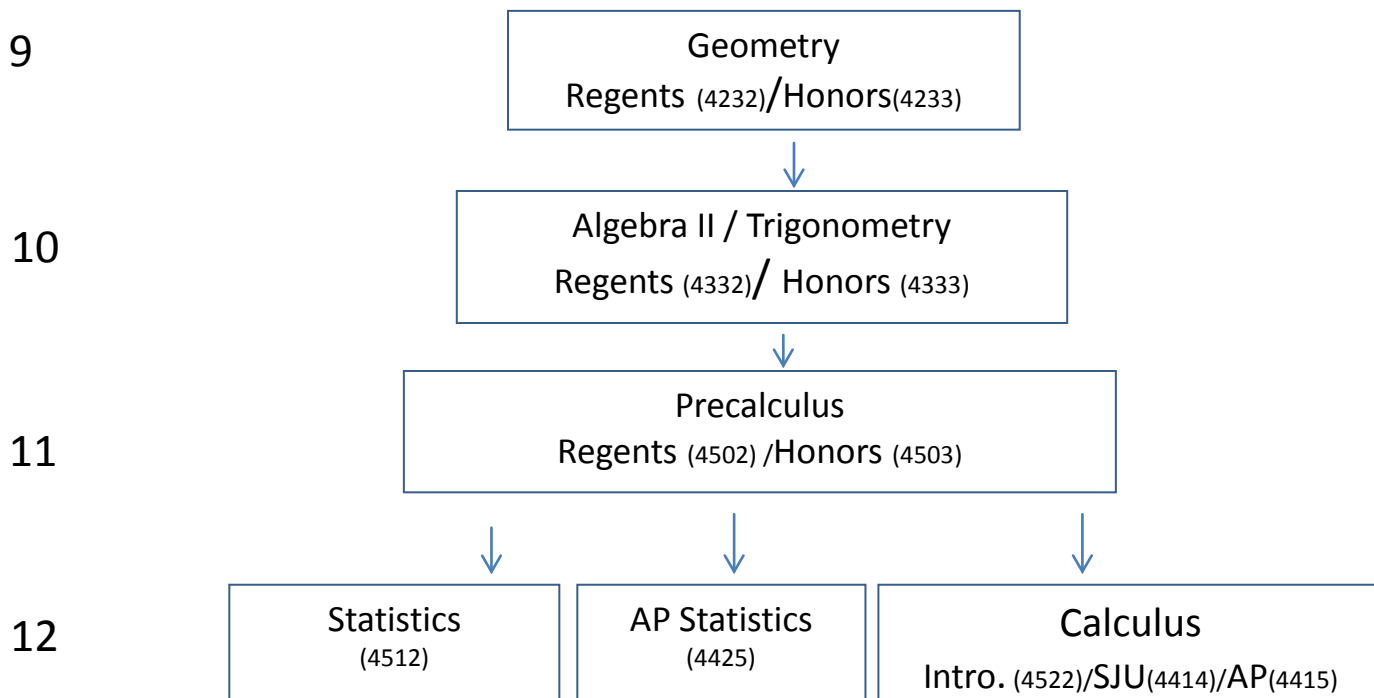
<b>4432</b>	<b>MATH STUDIES</b>	<b><i>Prerequisite: Course 4341 or 4332</i></b>	<b>Year - 1 Unit</b>
This course is a senior elective that focuses on interconnected math topics and stresses understanding fundamental concepts, mathematical reasoning, logic, and applying math and statistics in a wide range of contexts. The course is designed to offer students with varied mathematical backgrounds and abilities the opportunity to enhance mathematical and critical thinking skills.			
<b>4441</b>	<b>ANALYZING FINANCIAL DECISIONS</b>		<b>Semester – ½ Unit</b>
<i>Open to Seniors</i>			
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 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.			
<b>4502</b>	<b>PRECALCULUS: MATH IV*</b>		<b>Year - 1 Unit</b>
<b><i>Prerequisite: Successful completion of course 4332 and a passing score on the Common Core Algebra II Regents Exam</i></b>			
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 College. This course will culminate with a mandatory final exam.			
<b>4503</b>	<b>PRECALCULUS HONORS*</b>		<b>Year - 1 Unit</b>
<b><i>Refer to: Honors requirements on Page one</i></b>			
<b><i>Prerequisite: Successful completion of course #4332 or #4333 and a passing score on the Common Core Algebra II Regents Exam</i></b>			
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 College. This course will culminate with a mandatory final exam.			
<b>4512</b>	<b>STATISTICS*</b>	<b><i>Prerequisite: Course 4332, 4333, or 4341</i></b>	
<b>Year - 1 Unit</b>			
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 College. This course will culminate with a mandatory final exam.			
<b>4522</b>	<b>INTRODUCTION TO CALCULUS/CALCULUS I*</b>		<b>Year - 1 Unit</b>
<b><i>Prerequisite: Course 4502 or 4503</i></b>			
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 College. This course will culminate with a mandatory final exam.			
<b>4414</b>	<b>CALCULUS HONORS - SJU*</b>	<b><i>Prerequisite: Course 4503 or 4502</i></b>	<b>Year - 1 Unit</b>
<b>UNIVERSITY CALCULUS I (4 SJU Credits) Semester 1</b>			
<b>UNIVERSITY CALCULUS II (4 SJU Credits) Semester 2</b>			
<b><i>Refer to: Page 1 for Honors Courses and SJU Requirements on page 5 and 6</i></b>			
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.			
<b>4415</b>	<b>AP CALCULUS AB*</b>	<b><i>Prerequisite: Course 4503 or 4502 with teacher recommendation</i></b>	<b>Year - 1 Unit</b>
<b><i>Refer to: Page 1 for Advanced Placement courses</i></b>			
This course is for Honors students interested in Math related fields, and those who wish to satisfy college core requirements. This <i>Advanced Placement</i> course in <i>AB Calculus</i> studies both differential and integral calculus. It includes applications such as optimization, volume of solids of revolution and slope fields, <b><i>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.</i></b>			
<b>4425</b>	<b>AP STATISTICS *</b>	<b><i>Prerequisite: Course 4332 or 4333</i></b>	<b>Year - 1 Unit</b>
<b><i>Refer to: Page 1 for Advanced Placement courses</i></b>			
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. <b><i>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.</i></b>			



## MATH COURSE SEQUENCE 2019-2020



### Math Sequence for Freshmen Who Have Successfully Completed Integrated Algebra



Refer to Course descriptions for prerequisites and recommendations



## THE 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: 8411, 8501, 8521, 8601 and 8611, 8551, 8561. 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.**

### CHORAL COURSES

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

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.

**8551 BEL CANTO CHORALE -** *By Audition Only* **Year - 1 Unit**  
*Open to Sophomore, Junior, and Senior students after audition*

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

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

**8571 HIMPHONIX** *By Audition Only* **Year - 1 Unit**  
*Open to all students after audition*

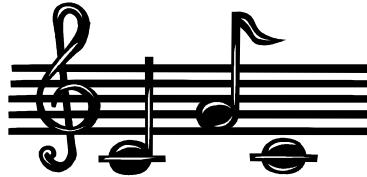
This course meets daily and is designed for male singers who love to sing. This course focuses on personal growth and development of the entire individual through the art of singing and performance. Throughout the course students will learn the basic foundation of modern musical notation and the core 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

### INSTRUMENTAL COURSES

**Required concert attire for all performance courses:** *Females – long black skirts & long-sleeved white blouse*  
*Males – black pants, long sleeved white shirt, & appropriate tie*

**8411 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.**



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<b>8501 SYMPHONIC BAND</b>	<i>By Audition Only</i>	<b>Year - 1 Unit</b>
<p>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. <b><i>Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.</i></b></p>		
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<b>8521 STRING ORCHESTRA</b>	<i>By Audition Only</i>	<b>Year - 1 Unit</b>
<p>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. <b><i>Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.</i></b></p>		
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<b>8531 SYMPHONY ORCHESTRA</b>	<i>By Audition Only</i>	<b>Year - 1 Unit</b>
<p>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. <b><i>Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.</i></b></p>		
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<b>8601 JAZZ ENSEMBLE</b>	<i>By Audition Only</i>	<b>Year – ½ Unit</b>
<p><b><i>Refer to: Page 1 for After School Courses</i></b></p> <p>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. <b><i>Participation in school concerts is mandatory. Additional after-school rehearsals will also be required in preparation for all school concerts.</i></b> This course meets <b><i>three times a cycle</i></b> after school, from 3:00 - 3:40</p>		
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<b>8611 CHAMBER ENSEMBLE</b>	<i>By Audition Only</i>	<b>Year – ½ Unit</b>
<p><b><i>Refer to: Page 1 for After School Courses</i></b></p> <p>Offered to all instrumentalists, attention is focused on chamber music performance (duets, trios, quartets, quintets, etc.). Emphasis will be placed on small ensemble group playing, as well as advanced solo material. Students will have a chance to explore classical and modern literature that takes them out of the formal band, and orchestra setting. This is also an opportunity for students to play instruments that are not a part of band and orchestra such as guitar, ocarina, and the recorder to name a few. Students will be required to perform a variety of SJB events each year including but not limited to Open House, and the Pops Concert. <b><i>Participation in school concerts and all Chamber ensemble events is mandatory.</i></b> This course meets <b><i>three times a cycle</i></b> after school, from 3:00 - 3:40.</p>		
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<b>8661 PERCUSSION ENSEMBLE</b>	<i>By Audition Only</i>	<b>Year – ½ Unit</b>
<p><b><i>Refer to: Page 1 for After School Courses</i></b></p> <p>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 <i>Open House, and the Pops Concert.</i> <b><i>Participation in school concerts and all school Percussion ensemble events is mandatory</i></b> This course meets <b><i>three times a cycle</i></b> after school, from 3:00 - 3:40.</p>		

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## DANCE COURSES

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

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<b>8671</b>	<b>DANCE and CHOREOGRAPHY</b> <i>Open to Freshmen and Sophomores</i>	<i>Audition Required</i>	<b>Year - 1 Unit</b>
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This course will meet every day for the entire year and will fulfill the New York State Art/Music 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.**

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<b>8691</b>	<b>DANCE COMPOSITION AND CHOREOGRAPHY</b> <i>Open to Juniors and Seniors</i>	<b>Dance experience recommended</b>	<b>Semester – ½ Unit</b>
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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***

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<b>8591</b>	<b>INTRODUCTION TO MUSIC THEORY</b> <i>Open to Juniors and Seniors</i>	<i>Prerequisite: One year - any Ensemble Course</i>	<i>(Fall)</i> <b>Semester ½ Unit</b>
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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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<b>8595</b>	<b>AP MUSIC THEORY</b> <i>Open to select Juniors and Seniors</i>	<i>Prerequisite: Course 8591</i>	<i>(Spring)</i> <b>Semester ½ Unit</b>
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***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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<b>8631</b>	<b>GUITAR</b> <i>Open to Juniors and Seniors</i>		<b>Semester – ½ Unit</b>
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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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<b>8651</b>	<b>SYNTHESIZER &amp; RECORDED MUSIC</b> <i>Open to Juniors and Seniors</i>		<b>Semester – ½ Unit</b>
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Students will learn the history and importance of the Synthesizer as it relates to 20<sup>th</sup> century electronic music. The course teaches the programming of synthesizers, sequencers, drum machines and computers. Emphasis will be placed on music theory, ear training, rhythm, and rhythm transcription. Students will explore the many types of recording software available such as *ProTools*, *Audacity*, and *Garage Band*. The goal is to develop recording, mixing and editing techniques that will be the basis for a final recording project.

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<b>8711</b>	<b>PIANO</b> <i>Open to Juniors and Seniors</i>		<b>Semester – ½ Unit</b>
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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.



## THE RELIGIOUS STUDIES DEPARTMENT

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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? A Senior Year Course in the New 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.

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THE 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 one year course that develops basic scientific concepts, stimulation of inductive reasoning, continued development of technical skills, and the 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 one year course, designed for highly motivated students, develops basic scientific concepts, stimulation of inductive reasoning, continued development of technical skills, and the 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. Students will have a cumulative in-class final exam in June.

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**5302 CHEMISTRY REGENTS- THE PHYSICAL SETTING\*** **Year - 1 Unit**

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

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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**5402 PHYSICS REGENTS - THE PHYSICAL SETTING\*** **Year - 1 Unit**

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

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.**



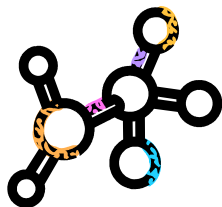
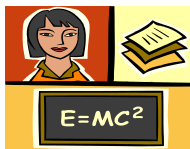


**SCIENCE ELECTIVES**  
**ELECTIVES CANNOT REPLACE REQUIRED COURSES**

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<b>5441</b>	<b>PHYSICS – THE PHYSICAL SETTING*</b>	<i>Prerequisite: Course 5301 or 5302</i>	<b>Year - 1 Unit</b>
<p>This course will introduce general Physics concepts of mechanics, energy, electricity &amp; 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.</p>			
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<b>5411</b>	<b>ANATOMY AND PHYSIOLOGY *</b>		<b>Semester ½ Unit</b>
<p><i>Open to Juniors and Seniors</i></p> <p>This course is designed to give students a basic foundation in the study of the structure (<i>Anatomy</i>) and function (<i>Physiology</i>) of the human body. Various body systems will be studied throughout the semester including the circulatory, lymphatic, respiratory, digestive, excretory, nervous, endocrine, and reproductive systems with an emphasis on their interrelatedness and interdependence. The body's ability to maintain homeostasis will be examined, as well as the possible diseases and disorders that may result when this balance is disrupted. All students are required to take a final exam at the end of the semester.</p>			
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<b>5421</b>	<b>FORENSIC SCIENCE</b>		<b>Semester ½ Unit</b>
<p><i>Open to Seniors</i></p> <p>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 analysis, and Anthropology, and Entomology. All students are required to take a final exam at the end of the semester.</p>			
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<b>5431</b>	<b>MARINE SCIENCE*</b>		<b>Semester ½ Unit</b>
<p><i>Open to Juniors and Seniors</i></p> <p>This is a one semester course which combines the biology and chemistry of the world's oceans. This elective credit course will cover the topics of marine life zones and habitats, ocean properties, bony fish and sharks, marine mammals, invertebrates, coral reef ecosystems, and oceanography. The course focuses on how marine organisms interact with each other and their physical environment, with specific emphasis on Long Island ecosystems. All students are required to take a final exam at the end of the semester.</p>			
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<b>5504</b>	<b>ADVANCED BIOLOGY- SJU*</b>	<i>Prerequisite: Courses 5202 and 5302</i>	<b>Year - 1 Unit</b>
<p><i>Open to Seniors</i></p> <p style="text-align: center;"><b>FUNDAMENTALS OF BIOLOGY I ( 4 SJU Credits) - Semester 1</b> <b>FUNDAMENTALS OF BIOLOGY II (4 SJU Credits) - Semester 2</b></p> <p><b><u>Refer to: Page 1 for Honors Courses and SJU Requirements on page 5 and 6</u></b></p> <p>Advanced Biology follows the syllabus of the Fundamentals of Biology course at St. John's University with special emphasis on Biochemistry, Cell Physiology and Molecular Genetics. Students may obtain college credits through St. John's University or by taking the Advanced Placement Examination in Biology. It is recommended that students have a strong background in Chemistry.</p>			
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<b>5515</b>	<b>AP ADVANCED CHEMISTRY*</b>	<i>Prerequisite: Course 5302 or 5303</i>	<b>Year - 1 Unit</b>
<p><b><u>Refer to: Page 1 for Advanced Placement Courses</u></b></p> <p>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. <b>All students are required to take the AP exam and a final exam in May.</b></p>			
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<b>5525</b>	<b>AP ADVANCED BIOLOGY*</b>	<i>Prerequisite: Course 5202 and 5303</i>	<b>Year – 1 Unit</b>
<p><b><u>Refer to: Page 1 for Advanced Placement Courses</u></b></p> <p>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. <b>Students are required to take the AP Exam and a final exam in May.</b></p>			
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<b>5535</b>	<b>AP PHYSICS 1*</b>	<i>Prerequisite: Course 5302 and 4332 or 4333</i>	<b>Year – 1 Unit</b>
<p><b><u>Refer to: Page 1 for Advanced Placement Courses</u></b></p> <p>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; mechanical waves and sound. It will also introduce electric circuits. The ability to develop and use Physics knowledge by applying it to the practice of scientific inquiry and reasoning will also be stressed. <b>Students are required to take the AP Exam in May.</b></p>			

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## THE GENESIS PROGRAM

### SCIENTIFIC RESEARCH

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#### 5603 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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#### 5603 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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#### 5603 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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## THE ENGINEERING PROGRAM

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#### 5613 PLTW – INTRODUCTION TO ENGINEERING DESIGN

Year - 1 Unit

*Open to Freshman. This course will count as an art credit.*

This course has 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, constructive materials, and maintain an engineering notebook to document their work. This is a first in a series to be offered and is a prerequisite for all other Project Lead the Way (PLTW) courses. The program empowers students all across the country to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. Students may receive college credit upon completion of each course's required final exam. Enrollment into the program is based on student interest, academic potential, and committee interview.



THE 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 year Social Studies scores.**

**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**

**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.**

**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.**

**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.**

**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.**

**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)**

**2412 PUBLIC POLICY ISSUES\*** Semester - ½ Unit  
 This course introduces seniors to the criminal justice system, sources and types of law, the nature and causes of crime, constitutional rights of the accused and the role of the police, courts and prisons. Guest speakers include members of the county police department. **Required for All Seniors (unless they select Sociology Honors or A.P. U.S. Government)**

**SOCIAL STUDIES ELECTIVES**

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

**2501 INTRODUCTION TO SOCIOLOGY\*** **Semester - 1/2 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, socialization and sexualities 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.

**2511 AMERICAN CIVIL LAW\*** **Semester - 1/2 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.

**2521 URBAN STUDIES – CITY LIFE\*** **Semester - 1/2 Unit**

This course introduces students to the historical, economic, political, social and cultural aspects of urban areas. It also touches on the growth of the suburbs. Students are required to learn historical background, transportation methods, city planning concepts, and cultural opportunities. There will be assigned significant projects each quarter, as well as group activities and guest speakers. Final exam for this course is a final project which includes travel to N.Y.C. This course includes four required field trips to N.Y.C. plus the purchase of maps and guides. The approximate cost for the above is **\$200**.

**2531 AMERICAN HISTORY THROUGH SPORT \*** **Semester - 1/2 Unit**

*Open to Seniors*

Students who take this course will analyze major events and time periods in American History through the lens of sports and athletic competition. Athletics and athletes have often reflected and impacted many of the important shifts and historical changes over the 20th century. The course will examine this relationship during historical events such as the aftermath of September 11<sup>th</sup>, the Civil Rights movement, both World Wars, the Cold War, the Women's Rights movement and the Great Depression. The Olympic Games and the economies of sport will also be studied using this paradigm of inquiry. Upon completion, students will understand how sport has mirrored and influenced the major historical shifts of the 20<sup>th</sup> century. Students will undertake multiple projects, including a full research paper, and will be able to explain the historical and social significance of various figures from the world of sport.

**2504 SOCIOLOGY HONORS - SJU\*** **Year - 1 Unit**

**INTRODUCTION TO SOCIOLOGY (3 SJU Credits) 1<sup>st</sup> Semester - 1/2 Unit**

**SOCIAL PROBLEMS (3 SJU Credits) 2<sup>nd</sup> Semester - 1/2 Unit**

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 *Public Policy Issues* course (2412).**

**2525 ADVANCED PLACEMENT UNITED STATES GOVERNMENT \*** **Year - 1 Unit**

*Open to Select Juniors and Seniors*

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 *Public Policy Issues* course (2412). Students must take the Advanced Placement Examination for possible college credit in May. In addition, there will be a final exam.**

**2535 ADVANCED PLACEMENT ECONOMICS \*** **Year - 1 Unit**

*Open to Select Seniors*

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) & Public Policy (2412) 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. In addition, there will be a final exam.**



## DRIVER EDUCATION

### Semester

The Driver Education Program at SJB follows the guidelines of both the New York State Education Department and the New York State Department of Motor Vehicles. The course consists of 24 classroom hours of instruction and 24 hours of in car instruction. Six hours of actual behind the wheel instruction is mandatory. Students are required to attend one driving and one classroom session per week. Registration is a first come first served basis. All students applying to join the program should be 16 years of age and must obtain a New York State driving permit as soon as possible once the course has begun. This course is offered in the fall, spring and summer. Upon successful completion of the course, each student will receive the MV285 certificate which allows a 17 year old to drive with senior driving privileges as long as they have passed their road test. **A Fee is required.** For more information, contact the General Office: 631-587-8000 ext. 122 or email: [drivered@sjbdhs.org](mailto:drivered@sjbdhs.org).



## IMPORTANT NCAA INFORMATION FOR ATHLETES

### NCAA approved courses at SJB:

All World Language Courses

All Social Studies Courses

All English Courses EXCEPT:

Communications

Video Broadcasting

All Science Courses EXCEPT:

Forensics

All Mathematics Courses EXCEPT:

Trig/Precollege

Analyzing Financial Decisions

#1501

#1621 & #1631

#5421

#4421

#4441

### NCAA denied courses at SJB:

All Art Courses

All Computer Courses

All Performing Arts Courses

All Religious Studies Courses

All Physical Ed. Courses EXCEPT:

Health #9621