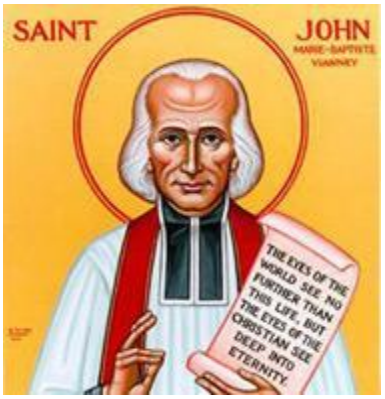
SAINT JOHN VIANNEY HIGH SCHOOL

Knowledge Commitment Involvement



Course of Studies Guide 2026 - 2027

Saint John Vianney High School
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COURSE OF STUDIES GUIDE

This Course of Studies Guide describes the course offerings of Saint John Vianney High School. We hope that through the use of the course selection booklet, the students of Saint John Vianney High School will develop their capabilities, enrich their personal lives, and enhance their growth as Christian leaders. You will notice our guide begins with Theology and is listed alphabetically thereafter. Our Catholic faith comes first at Saint John Vianney High School.

Students are urged to carefully read the descriptions of the course selections. They should seriously consider present needs, achievements, interests, as well as graduation requirements. Future goals and ambitions should be weighed. When considering these factors, students should turn to their parents, teachers, and guidance counselors for needed help in making decisions that are appropriate for them. Whatever the students' plans, they should take the most challenging courses they can within their academic abilities.

BLOCK SCHEDULING

Students must take four courses each term, and each course is scheduled for approximately twice the standard instructional time as under traditional scheduling. All courses are 5 Credits, except for AP (Advanced Placement) Courses, which are 10 credits and taken the full school year. All students must take one term of a Theology course each year at Saint John Vianney High School.

GUIDANCE SERVICES

Our Guidance Services are based on the philosophy of "Catholic Service." Our counselors are available to help students and parents make decisions about their personal and social lives and plan for the future. We offer a full range of guidance services with a special emphasis on college and post-high school planning. We also coordinate the educational services of local, state, and federal agencies for our students and parents. Our goal is to have our graduates self-sufficient and able to understand and deal confidently with the expectations of society. Please feel free to utilize our services at every opportunity.
All student athletes should discuss with their guidance counselors their intention to participate in college athletics. Please visit this website for NCAA eligibility: www.eligibilitycenter.org

REQUIREMENTS FOR GRADUATION

Graduation from Saint John Vianney High School requires the successful completion of certain required subjects, which include the following number of courses:

Religious Studies–4 (taken each school year at SJV)
English–4
Mathematics–3 (through Algebra II/Trigonometry)
Physical Education/Health–2** (Beginning with the Class of 2029 students will take PE through grade 11)
Lab Science–3 including one level of Biology and one level of Chemistry within 4 years
U. S. History–2
World History/Cultures–1
Fine/Performing/Practical Arts–1
World Languages-2

COLLEGE ADMISSIONS

All colleges are looking for candidates who have pursued the most rigorous program of studies that is available. Naturally, each college and each major has its own specific requirements, but the subjects listed below, with the number of courses completed, can be used as a base on which to plan. Remember, all students who apply to colleges will have the minimum – each SJV applicant should offer more:
English-4 Mathematics-3 (through Algebra II/Trigonometry) World Languages-2 Social Studies Science Lab–3
Electives-3 (English, Social Studies, Mathematics, Religious Studies, Science, World Languages, Business/Technology)
**Early College Academy, Business Academy, and Pre-Law Academy not required.

DUAL ENROLLMENT COURSES

Dual enrollment courses are offered through Brookdale Community College, Georgian Court University, University of Delaware, and Seton Hall University. Students entering a dual enrollment course must meet the prerequisites set by the college or university running the course. Payment for dual enrollment courses must be made by the deadline set by the college. The college or university defines the cost of the course. If payment is not made, a student will be removed from the course and placed in a different course. Students taking the Brookdale Community College courses must take the Brookdale Community College Placement Test and earn a qualifying score or meet the minimum SAT or ACT score determined by Brookdale Community College.

ADVANCED PLACEMENT COURSES

All students who take an Advanced Placement course at Saint John Vianney High School must pay for and take the Advanced Placement exam(s) on the scheduled date. The score(s) earned on the exam may or may not earn college credit or transfer to some or all colleges. Any student who drops an Advanced Placement course following Term 1 may receive a withdrawl (W) on his or her transcript. It is expected that the student takes both terms of an Advanced Placement course and fully completes the course curriculum.

Contents

THEOLOGY

THEOLOGY 9
FOUNDATIONS OF CATHOLIC FAITH AND BELIEFS
This introductory course is for 9th grade students who have diverse religious backgrounds and faith experiences. The subject matter addresses the following: the organization and mission of the Church, fundamentals of Catholic morality, Bible skills, and basic understanding of the Old and New Testaments.

THEOLOGY 10
DEVELOPMENT AND FUNDAMENTAL BELIEFS WITHIN THE CATHOLIC TRADITION
This course offers an in-depth study of the Old Testament. Students study the foundations of Catholic ethics and morality.

THEOLOGY 11
THE CHURCH AND OUR ROLE AS ROMAN CATHOLICS
This course explores the theological, religious, historical, and cultural understanding of the nature of God and the development of the Doctrine of the Trinity. Students study the development and growth of the Church, the institution of the Sacraments, and the special role of various forms of prayer.

THEOLOGY 12
HISTORY OF THE CATHOLIC CHURCH AND ITS PLACE AMONG WORLD RELIGIONS IN THE MODERN WORLD
This course is designed to provide the student with a thorough study of the history of the Catholic Church from its religious foundations, beginning with Jesus and the Apostles, up to the challenges in modern times. Students will also examine the major world religions such as Judaism and Islam and the Eastern Religions such as Hinduism and Buddhism.

AIR FORCE JUNIOR ROTC ELECTIVE

ROTC HONORS SPACE EXPOLORATION AND CAREERS OPPORTUNITIES
Open to students in grades 9, 10, 11, and 12

This course introduces students to space exploration, cybersecurity, and technology, emphasizing the importance of cybersecurity in space systems and everyday life. Students study the history of space travel, modern space probes and robotics, and the effects of space on the human body. The course also explores rockets, launch vehicles, and the coordinated systems required for successful space launches, as well as career opportunities in federal service, including the military, aerospace industry, and public service.

Health & Wellness is an integral part of the Air and Space Force Junior ROTC program. Its objective is to encourage cadets to develop lifelong healthy and active lifestyles. The wellness curriculum supports the development of citizens of character by helping cadets create and maintain individualized fitness programs that extend beyond program requirements into adulthood.

BUSINESS/TECHNOLOGY

HONORS COMPUTER SCIENCE
Open to grades 9*, 10, 11, and 12
Prerequisites* Grade 9 with placement in Honors Mathematics or placement in the Advanced Technology Academy
This course introduces students to programming computer systems, coding, mobile apps, cyber security and gaming. Topics include the use of variables, loops, conditional logic, logical operators and functions. Students will apply these programming principles to develop software for PCs and robots. This is a project-based course.

FINANCIAL LITERACY
Open to students in Grades 9, 10, 11, and 12
Understanding and managing personal finances are key to one's future financial success. This course presents essential knowledge and skills to make informed decisions about real-world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

ROBOTICS
Open to grades 9, 10, 11 and 12
This is an introductory programming course applied to robotics. Students will study and learn how to write programs with an emphasis on developing their problem-solving and analytical skills, while enhancing their logical problem-solving abilities. They will learn to write their own computer programs from an object-oriented perspective. Number systems key to computer programming, flowcharting, algorithm development structured programming, and stepwise refinement will follow. They will create figures that move on a computer screen and then learn to program free-standing robots. This class provides a solid programming foundation that students will find beneficial for future pursuit of computer science courses.

HONORS ROBOTICS II
Prerequisites* Grades 10* Advanced Technology Academy students or successful completion of Robotics and teacher recommendation.
This will be a project-based course for students who are self-starters who want to further develop their skills in robotics and programming. Students can participate in competitions as representatives of Saint John Vianney High School.

HONORS ENGINEERING I
Prerequisites* *Grade 9 with placement in Honors Mathematics
Grades 10, 11, and grade 12 students in an Honors Math course
This course will prepare students for college majors in engineering, and engineering technology fields, or other post-secondary experiences related to engineering. This first-year course is designed to be a foundation course and provide basic understanding of robotics, mechanics, and engineering concepts. Students will apply basic mechanical physics and programming to create devices to solve real-world problems. This course embraces STEM (Science, Technology, Engineering and Math) curriculum for the student and helps them to see how these subjects relate to real-world needs and careers.

HONORS ENGINEERING II

Prerequisites* *Grades 10, 11, and 12 and completion of Honors Engineering I with B- or higher and/or successful completion of Physics with a B or higher

This second-year course focuses on the engineering design process. Students will learn a broad range of engineering topics including mechanics, the strength of structures and materials, electronics, automation, thermodynamics, and aerodynamics. Students develop skills in problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

MARKETING

Prerequisites* *Open to students in Grades 10, 11 and 12

This course will help students develop an understanding of the broad field of business marketing and distribution. It will deal with the study of what marketing is, its role in the American economic system, the relationship of marketing to the consumer, marketing mathematics, basic sales, sales promotion, retailing, wholesaling, merchandising and operations.

DUAL ENROLLMENT MANAGEMENT THEORY AND ORGANIZATIONAL BEHAVIOR

Dual enrollment with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Open to students in Grades 10 *Business Academy students only, 11, and 12

Students will study management theories as they apply to organizations and develop the skills essential to effective management. Technology is integrated into this course and consideration is given to ethical and global issues, along with social, legal, and environmental viewpoints that help shape management decision-making.

DUAL ENROLLMENT PRINCIPLES OF FINANCIAL ACCOUNTING

Dual enrollment with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Open to students in Grades 10 *Business Academy students only, 11, and 12

Students will study the theory and procedures of accounting, including transaction recording; accrual accounting and matching concepts; financial statement preparation; inventories and merchandising company accounting; cost of goods sold; and accounting for cash, receivables, and fixed assets.

DUAL ENROLLMENT INTRODUCTION TO BUSINESS AND PERSONAL FINANCE

Dual enrollment course with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Open to students in Grades 9*, 10, 11, and 12 *Students in Grade 9 Business Academy only

Examine the responsibilities of business as part of our society and explore the importance of personal financial literacy. Review the management and marketing process, leadership, human resource management, the functions of financial institutions, and careers in business. Also includes personal financial issues such as credit card traps, loans, planning, and long-term investing.

DUAL ENROLLMENT MACROECONOMICS

Dual enrollment course with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Open to grades 10, 11, and 12

Investigate the concepts of people making correct or optimal decisions to achieve the highest level of well-being given limited and scarce resources through the use of supply and demand analysis. Focus on the theories behind national income accounting, how and why a country's economy grows or declines over time, and why a country sometimes experiences periods of high unemployment and/or high rates of inflation. Examine the role business and government can play in causing and eliminating economic instability in our economy. Discuss the basics behind international trade and finance.

DUAL ENROLLMENT MICROECONOMICS

Dual enrollment course with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Open to grades 10, 11, and 12

Examine rational decision-making by individuals, households, and firms under different levels of completion, regulations, and policy constraints. Investigate why consumers buy different products and how firms determine how much to produce of each product under various levels of competition. Examine why people get paid different wages and salaries, poverty, the distribution of income in our society, and externalities such as pollution.

DUAL ENROLLMENT COMPUTER LOGIC AND DESIGN

Dual Enrollment with Brookdale Community College

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

***Open to students in grades 10-12. Must have an A in Algebra 1 or B or better in Honors Algebra 1.**

***Students must take the Brookdale Community College Placement test and earn a qualifying score for acceptance into the course or meet minimum SAT or ACT requirement determined by Brookdale Community College**.

This course provides students with an introduction to computer systems. The topics include computer components, computer programming logic using design structures, developing algorithms, coding programs, and debugging program code.

DUAL ENROLLMENT PROGRAMMING I

Dual Enrollment with Brookdale Community College

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* * Completion of DE Computer Logic and Design

***Open to students in grade 12**

The student will be able to analyze a variety of problems, develop algorithms to solve those problems and code solutions using JAVA. The fundamentals of software development, which includes logic, control structures, arrays, methods, classes, documentation techniques, testing, and debugging, are covered. Assignments give students hands-on experience to design, write, test, debug and edit their program code using an integrated development.

DUAL ENROLLMENT PROGRAMMING II

Dual Enrollment with Brookdale Community College

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* * Completion of DE Computer Logic and Design and DE Programming I

***Open to students in grade 12**

This course continues the development of problem-solving, logical thinking, and object-oriented programming techniques using JAVA. Topics and techniques covered include design features from objects, classes, and objects as encapsulation tools, inheritance and hierarchies among classes, polymorphism, exception handling, and GUI/event-driven programming. Assignments give students hands-on experience to design, write, test, debug and edit their program code using an integrated development environment.

DUAL ENROLLMENT SYSTEM ANALYSIS AND DESIGN

Dual Enrollment with Brookdale Community College

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

***Open to students in grade 12 and successful completion of Dual Enrollment Computer Logic and Design**

Students will acquire working knowledge of principles, methods, and procedures required to develop a computerized information system. They will be able to identify, describe, and perform the various tasks associated with computer system development, particularly in systems planning, management, analysis and design, implementation and support.

DUAL ENROLLMENT DATABASE CONCEPTS

Dual Enrollment with Brookdale Community College

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* * Completion of DE Computer Logic and Design

***Open to students in grade 12**

This course covers how to analyze data and effectively design databases. The fundamental concepts of relational database design, implementation, and administration are presented. Design concepts include entity relationship modeling and normalization. The relation design is developed using a modeling tool. Database implementation and administration are covered through basic and advanced SQL.

DUAL ENROLLMENT ENTREPRENEURSHIP EXPERIENCE

Dual Enrollment with University of Delaware

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

***Open to students in grades 11 and 12**

This course provides a strong foundation of entrepreneurship-related knowledge, skills, and experiences. The course follows best practices for entrepreneurship education, which include learning by doing, reflecting on first-hand experiences, and emphasizing an evidence-based entrepreneurship process.

DUAL ENROLLMENT BUSINESS LAW

Dual Enrollment with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

***10th grade Pre-Law Academy students only**

***Open to students in grades 11 and 12**

This course is an introduction to the legal environment and the ethical and social responsibilities of businesses and individuals. This course includes dispute resolution, common law, statutory and administrative law, constitutional law, torts, negligence, and extensive coverage of contract law.

DUAL ENROLLMENT SPORTS MANAGEMENT

Dual Enrollment with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

This course focuses on an overview of selected areas of sports management. This course provides students with an opportunity to understand the broad field of sports management and identify skills, knowledge, and experiences needed by managers of sports programs.

ENGLISH

ENGLISH I

This course introduces students to major literary genres and foundational skills in critical reading and composition. Through the study of fiction, poetry, drama, and nonfiction, students develop analytical thinking skills, close reading strategies, and effective writing techniques. Emphasis is placed on crafting clear, coherent writing, developing strong thesis statements, and supporting ideas with relevant textual evidence. Grammar, vocabulary, and language skills are strengthened through purposeful application within reading and writing assignments throughout the course.

HONORS ENGLISH I

Prerequisite* *Recommended by Curriculum Coordinator for students who demonstrate high proficiency in the areas of reading, comprehension, and written expression on the HSPT and/or their most recent standardized test scores.

This accelerated course introduces students to major literary genres and advanced foundational skills in critical reading and composition. Through the study of fiction, poetry, drama, and nonfiction, students develop analytical thinking skills, close reading strategies, and effective writing techniques. Emphasis is placed on crafting clear, coherent writing, developing strong and nuanced thesis statements, and supporting ideas with relevant textual evidence and thoughtful analysis. Grammar, vocabulary, and language skills are strengthened through purposeful application within reading and writing assignments throughout the course.

ENGLISH II

Prerequisite* *Successful completion of any level of English I

This course builds on students' understanding of literature through thematic studies, in which texts are presented as in conversation with one another. Students examine a variety of texts in combination to develop critical reading and thinking skills and to produce evidence-based interpretations of literature. Emphasis is placed on crafting clear, coherent, and well-supported writing, with particular focus on argument and expository essays. Grammar, vocabulary, and language skills are strengthened through purposeful application within reading and writing assignments throughout the course.

HONORS ENGLISH II

Prerequisite* *A grade of A in English I or B in Honors English I plus teacher recommendation

This accelerated course builds on students' understanding of literature through thematic studies, in which texts are presented as in conversation with one another. Students examine a variety of texts in combination to develop advanced critical reading and thinking skills and to produce sophisticated, evidence-based interpretations of literature. Emphasis is placed on crafting clear, coherent, and well-supported writing, with particular focus on argument and expository essays that demonstrate depth of analysis and nuance of thought. Grammar, vocabulary, and language skills are strengthened through rigorous application within reading and writing assignments.

ENGLISH III

Prerequisite* *Successful completion of any level of English II

This course will cover the evolution of literature in America beginning with the Romantic period and moving into the present. Major literary movements will be studied through the works of famous American authors. Students will read short and full-length works, and participate in discussions regarding themes, characters and literary techniques. They will write analytical papers on work studied. Students will also write a five-paragraph essay using primary source material to support the thesis.

HONORS ENGLISH III

Prerequisite* *A grade of A in English II or B in Honors English II plus teacher recommendation

This accelerated and demanding survey of American literature will cover the evolution of literature in America through the major thematic topics. Students will read short and full-length works, participating in discussions regarding theme, characters,

literary techniques, and modern literary criticism. They will write analytical papers on works studied, focusing on logical argumentation. Students will also write a researched synthesis essay using primary source material to support the thesis.

A.P. ENGLISH LANGUAGE AND COMPOSITION

Prerequisites* *Open to 11th and 12th grade students

***A grade of A- in Honors English II *Honors English II teacher recommendation**

The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. To accomplish this task, the course requires expository, analytical, and argumentative writing assignments that are based on readings representing a wide variety of prose styles and genres. Through writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. Students in this class are required to take the Advanced Placement English Language and Composition Exam from the College Board in lieu of a school examination.

A.P. ENGLISH LITERATURE AND COMPOSITION

Prerequisites* *Open to 11th and 12th grade students

***A grade of A- in Honors English III and Honors English III teacher recommendation.**

OR

***Successful completion of A.P. English Language and Composition with that teacher's recommendation.**

This course, for highly motivated students, involves the comprehensive reading and study of selected works of classical and contemporary literature. Students will learn the various approaches to analyzing literature and the terms needed to explicate their observations. Students will write critical and interpretive papers based on their close readings. Students in this class are required to take the Advanced Placement English Literature and Composition Exam from the College Board in lieu of a school examination.

ENGLISH IV

Prerequisite* *Successful completion of any level of English III

This course is a survey of British literature with an emphasis on major themes presented through various genres. Students will apply their critical thinking skills through argumentative writing in conjunction with their literary study. Students will write a synthesis essay using primary and secondary sources to support the thesis. They will enhance vocabulary knowledge through skilled practice and complete a research essay on a relevant topic.

HONORS ENGLISH IV

Prerequisite* *A grade of A in English III or B in Honors English III plus teacher recommendation

This course offers students an opportunity for application of critical thinking skills through in-depth study and analysis of some of the great classics of British literature presented in various genres. Students will be required to supplement class assignments by completing designated outside readings and writing reports. A research-based synthesis essay along with other expository writings will be completed by students.

DUAL ENROLLMENT ENGLISH 121: ENGLISH COMPOSITION

Dual enrollment with Brookdale Community College

Prerequisites* *Brookdale Community College will determine eligibility for college credit and assess an additional fee for the credit. Students must pass Brookdale Community College Placement Test or meet minimum SAT or ACT requirement determined by Brookdale Community College

***Open to students in grades 11 and 12**

***A grade of A- in Honors English III for seniors with teacher recommendation or a grade of A in Honors English II for juniors with course teacher recommendation**

OR

***Recommendation of AP English Language and Composition teacher**

Honors English 121 is a college-level, introductory writing course in which students compose and revise narrative and expository essays, in addition to using writing to analyze texts. Through a writers' workshop approach, students explore the writing process, respond to a variety of texts, and learn to communicate their ideas effectively and confidently in writing. As this course will offer students dual credit between Saint John Vianney High School and a cooperating college/university, students should be prepared for challenging assignments, firm deadlines, and the need for active participation. Assignments MUST be submitted digitally. Students in this course are required to register for credit with the cooperating college.

DUAL ENROLLMENT ENGLISH COMPOSITION 122: WRITING AND RESEARCH
Dual enrollment with Brookdale Community College
Prerequisites* *Completion of DE English 121 with a grade of C or higher
***Open to students in grades 11 and 12**
This course teaches techniques and strategies for conducting research and for writing effectively on a range of subjects. Students learn to write and revise persuasive papers using critical thinking skills and information they find to support an assertion or position. Related reasoning and support for papers necessitates inquiry into social ethics and moral situations. Students learn to analyze and process this information using foundational principles of logic, ethical reasoning, and social morals. Students also learn and demonstrate proper documentation style.

DUAL ENROLLMENT SHORT STORY
Dual enrollment with Brookdale Community College
Prerequisites* *Brookdale Community College will determine eligibility for college credit and assess an additional fee for the credit. Students must pass Brookdale Community College Placement Test to meet minimum SAT or ACT requirement determined by Brookdale Community College.
***Open to students in grades 11 and 12**
Students will read and discuss short stories drawn from the literature of many cultures and countries. They will analyze the stories for the theme, form, relationship to their own lives, and reflection of various cultures. The relevance of these short stories for the modern reader will be examined.

ENGLISH DEPARTMENT ELECTIVES

All courses meet the Fine, Practical, or Performing Arts requirement for graduation.

JOURNALISM I
Prerequisite* *Open to students in Grades 9, 10, 11, and 12
This is a writing-intensive workshop course that introduces students to journalism's highest standards. Topics include news writing, feature writing, interviewing, photojournalism, sports writing, music, book and movie reviewing, editorial writing, and layout. The newspaper is designed through PageMaker and Photoshop and posted on the school website.

JOURNALISM II
Prerequisite* *Successful completion of Journalism I with a minimum grade of B+ and Journalism Teacher's recommendation
This course is for students who want to take their study of journalism to a higher level. Students take on the editorial leadership of the school newspaper as they upgrade their writing skills and develop an in-depth understanding of journalism production, history and ethics. Production assessment is based on journalism's A-B-C gold standard: Accuracy, Brevity, and Clarity.

YEARBOOK I

***Yearbook moderator approval**

Prerequisites* *Open to students in Grades 11 and 12

***Successful completion of any level of English II, English III with a minimum grade of A-**

OR

***Successful completion of AP English Language & Composition**

This course is designed to teach students the fundamentals of Yearbook publishing. Students will write Yearbook copy and feature articles, proofread manuscripts, and layout pages using a computerized desktop publishing system. The basics of photography will be taught. No prior experience is required, but students must have good writing/editing skills and be detail-oriented. Strong leadership skills will be developed as well.

YEARBOOK II

***Yearbook moderator approval**

Prerequisites* *Open to students in Grade 12

***Successful completion Yearbook I**

This course is designed to continue to teach students about Yearbook publishing. Students will write and edit copy and feature articles, proofread manuscripts, and layout pages using a computerized desktop publishing system. Strong leadership skills continue to be fostered.

FINE & PERFORMING ARTS

ART FUNDAMENTALS

Open to students in grades 9, 10, 11 and 12

This course is an introductory level course dedicated to providing an opportunity for students to develop their drawing and painting skills. These skills will be established through the seven elements of art using wet and dry media. Understanding the influence of art throughout history will enable students' ability to create through self-expression. Self-motivation, self-discipline, and independent thinking are encouraged in each student.

BASIC DESIGN

Open to students in grades 9, 10, 11, and 12

This course offers an exploration of the foundational design principles, spanning both two-dimensional and three-dimensional forms. Emphasizing independent work habits and advanced art creation skills, the curriculum includes basic drawing and painting techniques. Students will explore art history, product design, and compositional design. This approach enables students to conceptualize and create original designs, preparing them for further studies in various design disciplines.

DIGITAL ART & PHOTOGRAPHY

Open to students in Grades 11 and 12

This course combines the study of digital design and photography, using technology as a tool for artistic expression and visual communication. Instruction will include basic drawing techniques, perspective, layout, and digital design concepts, as well as a variety of photographic styles such as portraiture, action, still life, and nature photography. Students will learn camera operation, lighting techniques, and image editing using industry-standard software, including Adobe Photoshop. Technical challenges and creative problem-solving will be emphasized as students experiment with digital media and refine their artistic voice.

A.P. STUDIO ART

Prerequisites* *Open to students in grades 10, 11, and 12

***Successful completion of Art Fundamentals and either DE Drawing OR Basic Design**

***Teacher recommendation**

This course is designed for students who are highly motivated and seriously interested in the study and practical experience of art. It is a rigorous program with specific guidelines for successfully completing a large body of work for the AP Art Exam. Work outside of the classroom is necessary to complete the requirements. Submission of a portfolio in May is mandatory for receiving AP credit. If required work is not completed and submitted, then regular Studio Art credit will be given. ***Each student must provide a camera and USB storage device for class daily.***

DUAL ENROLLMENT DRAWING I

Dual enrollment course with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* *Grade 9 Portfolio Review *Grades 10, 11, and 12: Successful completion of Art Fundamentals, Basic Design or Textile Design and teacher recommendation

This Georgian Court University class is a studio course. Through the process of experimenting with a variety of drawing techniques and materials, students will develop their drawing skills through observational drawing. Emphasis will be on student creativity.

DUAL ENROLLMENT VISUAL ART AND DESIGN

Dual enrollment course with Georgian Court University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* *Grades 10, 11, and 12: Successful completion of Art Fundamentals, Basic Design or Textile Design and teacher recommendation

This course centers on an investigation of the formal principles of design and communication used in the studio by visual artists. Visual perception is developed through hands-on projects in both traditional and digital media; two-dimensional design, three-dimensional design, and color will be covered. Through the process of thinking through a series of visual problems, students will develop the skills and vocabulary needed to assess their work and gain a better understanding of the role of design in the creative process.

BEGINNING GUITAR

Open to students in grades 9, 10, 11, and 12

This course is an entry-level music class. Basic skills include holding the instrument, proper positioning of the hands, and proper playing techniques. Students are taught to read music, execute proper technique, play chords, and read tab. Students are expected to practice what is taught in class at least thirty minutes a day at home.

GUITAR II

Open to students in grades 9, 10, 11, and 12

Prerequisite* *Successful completion of Guitar I and teacher recommendation

This course is a secondary-level music course. Students will learn performance techniques and expand on their guitar playing abilities.

BEGINNING PIANO

Open to students in grades 9, 10, 11, and 12

This course is an entry-level music class. Basic skills include proper positioning of the hands, proper playing techniques, and reading music. Students are expected to practice what is taught in class at least thirty minutes a day at home.

PIANO II

Open to students in grades 9, 10, 11, and 12

Prerequisite* *Successful completion of Piano I and teacher recommendation

This course is secondary-level music course. Students will learn performance techniques and expand on their piano playing abilities.

AUDIO ENGINEERING

Open to students in grades 9, 10, 11, and 12

Students will learn the ins and outs of recording auditing in many different environments. The class will focus on simple voice- over and editing, all the way through advanced music recording, both live and in studio. The class will use recording industry professional grades software, preparing the students for a future in audio engineering.

MATHEMATICS

ALGEBRA I PART A

Prerequisites * *Based on HSPT score and standardized test scores.

Algebra I Parts A and B cover the same material as Algebra I, but over the course of a year instead of during one semester. In Part A, topics include simplifying numerical and algebraic expressions; an introduction to relations and functions; solving, graphing and writing linear equations and inequalities (including those involving absolute value); solving systems of linear equations; and working with exponents, roots and radicals. This course requires a TI-NSpire CX II graphing calculator. Students move from this course to Algebra I Part B.

ALGEBRA I PART B

Prerequisite* *Completion of Algebra I Part A

In this course, students continue their study of Algebra I by expanding and factoring polynomials; solving, graphing and writing quadratic equations; simplifying rational expressions; and exploring basic principles of data analysis and probability. Modeling and application problems are infused throughout the course. This course requires a TI-NSpire CX II graphing calculator. Upon completion of Algebra I Part B, students move on to Plane Geometry.

ALGEBRA I

Prerequisite* *Based on HSPT score and standardized test scores.

Algebra I is designed to give students a foundation for all future mathematics courses. Topics covered include an introduction to relations and functions; solving, graphing and writing linear equations and inequalities (including those involving absolute value); systems of linear equations; working with exponents, roots and radicals; expanding and factoring polynomials; solving, graphing and writing quadratic equations and an introduction to rational expressions. Modeling and real-world applications are infused throughout the course. This course requires a TI-NSpire CX II graphing calculator.

HONORS ALGEBRA I

Prerequisites* *Recommended by the Curriculum Coordinator for incoming freshmen who demonstrate high proficiency on the HSPT and their most recent standardized tests OR * Qualifying score on the SJVHS Algebra Achievement Test and Curriculum Coordinator approval.

Honors Algebra 1 is designed to provide students with a foundation for all future honors mathematics courses through an in-depth study of Algebra 1 topics at an accelerated pace, with enrichment problems and real-world applications woven throughout the course. This course requires a TI-NSpire CX II graphing calculator.

PLANE GEOMETRY

Prerequisites* *Completion of Algebra 1 Parts A and B

This course approaches geometry from a hands-on and visual perspective. Topics covered include angles, parallel and perpendicular lines, congruence, similar triangles, properties and applications of right triangles, polygons, circles, perimeter, area, and coordinate geometry. A brief introduction to right triangle geometry is also included. This course requires a TI-NSpire CX II graphing calculator.

PLANE GEOMETRY/TRIGONOMETRY

Prerequisites* *Completion of Algebra I with a minimum grade of C or completion of Algebra I A and B with an average of B+ or better and Teacher Recommendation.

Studying geometry provides many foundational skills and helps to build the thinking skills of logic, deductive reasoning, analytical reasoning, and problem-solving. In this course, plane Euclidean geometry is developed through a systematic application of postulates and theorems. Topics covered include angles, parallel and perpendicular lines, congruence, similar triangles, properties and applications of right triangles, polygons, circles, perimeter, area, volume and coordinate geometry. Students will also complete a unit on right triangle trigonometry. This course requires a TI-NSpire CX II graphing calculator.

HONORS GEOMETRY/TRIGONOMETRY

Prerequisites* *Grade 9: qualifying score on the SJVHS Math Algebra I Achievement Test and Curriculum Coordinator approval, or *Grade 9/10: Minimum grade of B in Honors Algebra I at SJVHS

This accelerated course is designed for students who have a strong background in Algebra I, as demonstrated by the qualifying score on the SJVHS Algebra I Achievement Test or by achieving a grade of B or better in Honors Algebra I at SJVHS. It provides a rigorous, proof-based study of the topics in the Plane Geometry/Trigonometry course. It expands the trigonometry unit to include trigonometric functions and their inverses, as well as using the Law of Sines and Law of Cosines to solve triangles. This course requires a TI-NSpire CX II graphing calculator.

ALGEBRA 2/TRIGONOMETRY

Prerequisite* *Grade of C or better in both Algebra 1 and in Plane Geometry/Trigonometry

The course reviews Algebra I and continues with an in-depth study of relations and functions. Linear, absolute value, quadratic and piecewise functions and their applications are emphasized, as well as solving systems of linear and quadratic functions. Additional topics include the complex number system, polynomial, rational and radical functions. After a review of the triangular trigonometry studied in Plane Geometry/Trigonometry, students are introduced to circular trigonometry. This course requires a TI-NSpire CX II graphing calculator.

ALGEBRA 2

Prerequisite* *Completion of Plane Geometry/Trigonometry with C- or less or completion of Plane Geometry

The course provides an in-depth review of Algebra 1 and continues a study of linear, quadratic, absolute value, and piecewise functions. Additional topics include the complex number system, as well as an introduction to polynomial, rational and radical functions. This course requires a TI-NSpire CX II graphing calculator.

HONORS ALGEBRA 2/TRIGONOMETRY

Prerequisite* *A minimum grade of B in Honors Geometry/Trigonometry (and in Honors Algebra I if this course was taken)

This course presents a modern integrated course in intermediate algebra and trigonometry, including a thorough review of elementary Algebra. It stresses broad, basic, and unifying concepts of functions and their transformations including linear, piecewise, absolute value, quadratic, polynomial, exponential, logarithmic, trigonometric, and inverse functions. Additional units of study include complex numbers, types of variation, systems of equations involving three variables and trigonometric graphs, identities, and equations. This course requires a TI-NSpire CX II graphing calculator.

ADVANCED ALGEBRA AND TRIGONOMETRY

Completion of Algebra 2

This course reviews solving quadratic, polynomial, rational, and radical equations, and then introduces solving exponential and logarithmic equations. The second half of the course includes a thorough study of right triangle trigonometry and an introduction to circular trigonometry. This course requires a TI-NSpire CX II graphing calculator.

PRE-CALCULUS

Prerequisite* *Minimum grade of C in Algebra 2/Trigonometry

This course will prepare students for advanced mathematical study leading to Calculus. It includes a thorough analysis of the behavior of linear, polynomial, rational, radical, exponential and logarithmic functions. It extends the previous study of trigonometry to include transformations of trigonometric graphs; simplifying trigonometric identities; and solving trigonometric equations. It also includes the study of conic sections. This course requires a TI-NSpire CX II graphing calculator.

HONORS PRE-CALCULUS

Prerequisites* *Grade of B or better in Honors Algebra 2/Trigonometry

***Teacher recommendation**

This course is designed to prepare advanced mathematics students for the study of Calculus. This course emphasizes the treatment of conic sections, functions, analytic geometry and higher-level Algebra and Trigonometry with an emphasis on using the graphing calculator as a tool for analyzing and exploring functions. SAT/ACT-type questions are embedded throughout the course. This course requires a TI-NSpire CX II graphing calculator.

HONORS DIFFERENTIAL CALCULUS

Prerequisites* *Minimum grade of C in Honors Pre-Calculus or minimum grade of A- in Pre-Calculus and

***Teacher recommendation**

This course is for the student not ready for a full year of college-level calculus. It provides a thorough review of elementary functions and then goes on to cover limits; definition and rules of differentiation; and applications of differentiation. This course requires a TI-NSpire CX II graphing calculator.

AP CALCULUS AB

Prerequisites* *Minimum grade of B+ in Honors Pre-Calculus

***Teacher recommendation**

This college-level course is for strong mathematics students with a solid foundation of functions, trigonometry and analytic geometry. It entails a comprehensive study of one semester of college-level differential and integral calculus. Students will take the Advanced Placement exam in May, in lieu of the final semester exams. This course requires a TI-NSpire CX II graphing calculator.

AP CALCULUS BC

Prerequisites* Grade 12 only with minimum grade of B in AP Calculus AB or A in Honors Pre-Calculus and teacher recommendation

This college-level course is for the exceptional mathematics student who has exhibited superb analytical thinking skills. It entails a comprehensive study of two semesters of college-level differential and integral calculus. In addition to incorporating all the topics covered in A.P. Calculus AB, it also includes parametric, polar and vector representations of functions, as well as a thorough study of infinite series. Students will take the Advanced Placement exam in May, in lieu of the final semester exams. This course requires a TI-NSpire CX II graphing calculator.

PROBABILITY AND STATISTICS

Prerequisites* * Grade of B or better in Algebra 2 or in Advanced Math

Or *Grade of C or better in Algebra 2/Trigonometry

This course will prepare the student for college Statistics. It will include an emphasis on the vocabulary of statistics, an intuitive notion of the tests and models for a given set of data, evaluation of statistical claims, and the basic principles of probability. This course requires a TI-NSpire CX II graphing calculator.

DUAL ENROLLMENT STATISTICS

Dual enrollment with Brookdale Community College

Prerequisites* *Brookdale Community College will determine eligibility for college credit and assess an additional fee for the credit. Students must pass Brookdale Community College Placement Test to meet minimum SAT or ACT requirement determined by Brookdale Community College.

***Open to students in grades 11 and 12, B- or higher in Honors Algebra 2/Trig, or Algebra 2/Trig with an A or higher AND Honors English II with a B or English II with A or higher.**

This course begins with descriptive statistics, including graphical representations of data and measures of central tendency, position and variation. Basic probability concepts lead to the study of the binomial and normal probability distributions. The course continues with the Central Limit Theorem and its use in the development of estimation through confidence intervals and hypothesis testing. The course concludes with Chi Squares tests and linear correlation and regression. Computer software will be used in class to gain a greater understanding of underlying concepts.

PHYSICAL EDUCATION & HEALTH

PHYSICAL EDUCATION / HEALTH – GRADE 9

FITNESS/NUTRITION, DRUGS AND ALCOHOL

Through exercise, team sports, and Fitness Gram testing, the students will get a chance to develop their skeletal and cardiovascular systems. Certain activities will offer the students social contacts that help to foster social growth and the development of a positive self-image. Students will sign up for the Physical Education activity of their choice and they will take four activities in a term. Physical Education activities are based on student interests.

Students will be given the tools to achieve optimum wellness. Emphasis will be on fitness nutrition and positive self-image (eating disorders and obesity), with some time devoted to safety and stress management. Students will learn to establish personalized fitness programs. This course will also cover drugs and alcohol and help guide the students to make solid value judgments and present them with all the available pertinent information. Such topics as the classification of drugs and why students take drugs will be discussed, along with the physical and psychological effects drugs have on the body.

PHYSICAL EDUCATION / HEALTH – GRADE 10

DRIVER'S EDUCATION, CPR/FIRST AID

Through exercise, team sports, and Fitness Gram testing, the students will get a chance to develop their skeletal and cardiovascular systems. Certain activities will offer the students social contacts that help to foster social growth and the development of a positive self-image. Students will sign up for the Physical Education activity of their choice and they will take four activities in a term. Physical Education activities are based on student interests.

Students are instructed in safe driving situations through speakers, text, films and other visual aids. Preparation for the State Test is included in the curriculum and is administered to the students on the last day of the driver's education unit. The CPR/First Aid part of the course is designed to prepare the students to react quickly and accurately in the event of an emergency. Students are given instruction in all areas of First Aid care, with particular stress on what not to do in various situations.

PHYSICAL EDUCATION DEPARTMENT ELECTIVES

HONORS CONCEPTS OF ATHLETIC TRAINING

Prerequisites* *Minimum grade of B in Biology and B in Anatomy and Physiology

***Open to students in Grades 11, and 12**

For students intending to pursue a career in the Health Profession such as Athletic Training, Physical Therapy, Occupational Therapy, Nutritionist, or Physical Education/Health Instructor, this course will provide content and practice of anatomy, evaluation and treatment of specific injuries, rehabilitation exercises, and taping techniques for the treatment and prevention of injuries.

PHYSICAL EDUCATION – Grades 11-12

Through exercise, team sports, and Fitness Gram testing, the students will get a chance to develop their skeletal and cardiovascular systems. Certain activities will offer the students social contacts that help to foster social growth and the development of a positive self-image. Students will sign up for the Physical Education activity of their choice and they will take four activities in a term. Activities will include both Team Sports (softball, basketball, floor hockey, eclipse ball, volleyball, soccer, kickball, weight room, ultimate frisbee, lacrosse, football) and lifetime sports (walking/jogging, pickleball, meditation, bowling, golf, badminton, weight room, ultimate Frisbee, table tennis, basketball, volleyball). Physical Education activities are based on student interests.

STRENGTH AND CONDITIONING

Open to students in Grades 10-12

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the fundamentals of weight training, strength training, and overall fitness training and conditioning. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement, for a lifetime.

SCIENCE

BIOLOGY AND LAB

This is the study of all living things and life processes. Students will study the major concepts and principles of general biology. Topics will include lab safety, the scientific method, the community of living things, cell structure and function, cell division, cell environment, microscopes (use and care), cell biochemistry, ATP, respiration, photosynthesis, genetics, DNA, RNA and protein synthesis, evolution, and classification.

HONORS BIOLOGY AND LAB

Prerequisites* *Open to students in Grades 9 or Grade 10

***Qualifying Score on Placement Test**

***Curriculum Coordinator approval**

This is the study of living things and life processes. Students will study the major concepts and principles of biology. Students will complete topics on lab safety, the scientific method, ecology and the communities of living things, cell biochemistry, and properties of water cell structure and function, cell transport and communication, microscopes (use and care), ATP, cellular respiration, leaf structure, photosynthesis, cell division, heredity, DNA, reproduction, and evolution.

ANATOMY & PHYSIOLOGY AND LAB

Prerequisite* * Open to students in Grades 11 and 12

Minimum grade of B in Biology and B in Chemistry

This course explores the anatomy and structure of the human body and each body part according to its body system and function. The main systems of study include integumentary, skeletal, muscular, circulatory, nervous, respiratory, digestive, urinary, reproductive, endocrine, and lymphatic systems. In addition to identifying the main anatomical features of the body, students will learn anatomical terminology and the structure of cells and tissues within the body. The material learned in this course can be applied to medical field careers, health and fitness careers and biological research careers.

MARINE BIOLOGY AND LAB

Prerequisite* *Open to students in Grades 11 and 12 *Minimum grade of C+ or higher in Biology and Lab and Chemistry and Lab

This course provides an in-depth introduction to the marine ecosystems and the diverse organisms that inhabit the world's oceans. Students will explore the relationships between marine life and the chemical, physical, and geological processes that shape the ocean environments. Topics include marine biodiversity, and taxonomy, tides and waves, ocean currents, seafloor geology, and the chemistry of seawater. Emphasis is placed on scientific inquiry, ecological connections, and the impact of environmental change on marine systems.

ENVIRONMENTAL SCIENCE AND LAB

Prerequisite* *Open to students in 10, 11, and 12 * Successful completion of Biology and Lab

This course introduces major ecological concepts and contemporary environmental issues affecting local, national, and global systems. Students will examine environmental policy and law, biogeochemical cycles, water resources and use, water and air pollution, acid rain, climate change, human population growth and its environmental impact. Emphasis is placed on relationships among organisms, their environment, and the effects of human activity on natural systems. Particular attention will be given to environmental issues in New Jersey.

CHEMISTRY AND LAB

Prerequisites* Open to students who have successfully completed Biology

Chemistry is a branch of science that focuses on the properties and interactions of matter. Students will complete units on lab safety, matter, atomic structure and periodic law, matter and energy, nomenclature, chemical bonding, the mole, and stoichiometry. Students will investigate these concepts via a variety of laboratory investigations and learn relevant laboratory skills.

HONORS CHEMISTRY AND LAB

Prerequisites* *Grade 9: Honors Grade 9 Math (may be concurrent) and Department Chair approval

***Grade 10: Honors Biology/Honors Math, minimum grade of B- in each or minimum grade of A in Biology and Algebra 1 and Curriculum Coordinator approval.**

Students will study the major concepts of general chemistry. Students will complete units on lab safety, matter, atomic structure and periodic law, matter and energy, chemical nomenclature, chemical bonding, the mole, stoichiometry, reduction and oxidation reactions, and acids and bases. Moreover, students will explore these principles and concepts via lab investigation and inquiry-based learning.

DUAL ENROLLMENT ANATOMY & PHYSIOLOGY AND LAB

Dual enrollment course with Seton Hall University

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisite* * Open to students in Grades 11 and 12

***Honors Biology with minimum grade of B or Biology with a minimum grade of A and Honors Chemistry with a minimum grade of B and teacher recommendation or Chemistry with a minimum grade of A and Curriculum Coordinator approval.**

This course is for students interested in entering the medical field. It is designed to provide students with the foundation in structure, function, and interconnectedness of the body's various systems. This course will introduced students to the general anatomy and terminology, histology, the integumentary system, the skeletal system, the muscular system, the nervous system, and the cardiovascular system. There will be an emphasis on all levels of cellular organization and function, from a single cell to an organ system. Moreover, the gross anatomy of each system will be covered as well.

PHYSICS AND LAB

Prerequisites* Chemistry with a grade of B and Algebra II/Trigonometry (may be concurrent); minimum grade of B or Algebra 2 with a B+ or higher (must have completed course).

The course will cover a mathematical investigation into the natural laws which govern matter and energy. Emphasis is placed on mathematical deductions, forms of energy, properties of matter and energy and their interrelationships. Students will complete units on motion, dynamics, universal gravitation, work and power, energy, thermodynamics, waves and energy, light, sound, mirrors and lenses, electricity, and magnetism.

HONORS PHYSICS AND LAB

Prerequisites*

Honors Biology and/or AP Biology, Honors Geometry/Trigonometry a B or better in each or Algebra II/Trig with an A.

This course is an in-depth study of fundamental principles of governing matter, energy and their interactions in the physical world. Emphasis is placed on high-level problems solving, quantitative reasoning, and the relationships among concepts. Students will complete units of mechanics, dynamics, thermodynamics, waves, sound, light, optics, electricity, and magnetism, with frequent, hands-on laboratory investigations to reinforce and apply concepts presented in class.

AP BIOLOGY AND LAB

***Open to grades 10, 11, and 12 with a minimum grade of B or higher in Honors Chemistry.**

AP Biology is an introductory college-level biology course that is equivalent to a two-semester college introductory biology course for science, nursing or STEM majors. Students cultivate their understanding of biology through inquiry based investigations as they explore topics like evolution, energetics, information storage and transfer, and systematic interactions. Specifically, the course covers eight main units: Chemistry of Life, Cell Structure and Function, Cellular Energetics, Cell Communication and Cycle, Heredity, Gene Expression and Regulation, Natural Selection and Ecology. All students will be required to take the A.P. Biology Exam.

AP CHEMISTRY AND LAB

Prerequisites* *Open to grades 10, 11, and 12 with Honors Chemistry with a minimum grade of B and Honors Algebra II and Trigonometry (may be concurrent) with a minimum grade of B.

AP Chemistry is an introductory college level chemistry course that is equivalent to a two-semester college introductory chemistry course for science, nursing, or STEM majors. The AP Chemistry course provides students with a college-level foundation to support advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based laboratory investigations as they explore the following course content: Atomic Structure and Properties, Compound Structure and Properties, Properties of Substances and Mixtures, Chemical Reactions, Kinetics, Thermochemistry, Equilibrium, Acids and Bases, and Thermodynamics and Electrochemistry. All students will be required to take the AP Chemistry Exam.

AP PHYSICS 1 AND LAB

Prerequisites*A minimum of B in both Honors Chemistry and Honors Algebra II and Trigonometry

AP Physics 1 is an introductory college level physics course that is equivalent to the first course in an introductory algebra-based physics sequence. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and problem solve in the following content areas: Kinematics, Forces and Translation Dynamics, Work and Energy, Linear Momentum, Torque and Rotation Dynamics, Energy and Momentum of Rotation Systems, Oscillations, and Fluids. All students in AP Physics 1 are required to take the AP exam.

FORENSICS AND LAB

Prerequisites* *Open to Grade 11 and 12

***Minimum grade of B in Biology and Chemistry and minimum of B- in Plane Geo/Trig.**

Forensic science integrates science, math, and written communication by utilizing real-life applications and case studies. Topics covered will include: collection and handling of specimens and examination of trace evidence (hair, fibers, soil, pollen and glass), fingerprints, blood and blood spatter examination, DNA, handwriting and tool mark analysis, impressions, ballistics, forensic anthropology, determination of the cause and time of death. Lab work is an integral part of the course.

SOCIAL STUDIES

WORLD HISTORY

This course examines our world's history from approximately the Renaissance period through the present day with a focus on the political, economic, social and cultural forces that have shaped the modern world. Students will study major themes such as revolutions, industrialization, imperialism, global conflict, nationalism, totalitarianism, decolonization, and globalization. The course is designed to further develop analytical and critical thinking skills as students explore the relationship between geography, culture, economics, politics, and historical changes across different regions of the world. Students will analyze historical documents, maps, data, and current events to better understand how past events continue to influence the modern world.

HONORS WORLD HISTORY

Prerequisites* *Qualifying Score on Placement Test

***Curriculum Coordinator approval**

This course will examine world history from the Renaissance period through the present day, with an emphasis on the political, economic, social, and cultural forces that shaped the modern global order. Students will engage in an in-depth study of major historical themes, including revolutions, industrialization, imperialism, nationalism, totalitarianism, global conflict, and the early stages of decolonization and globalization. This course is designed to develop analytical and critical thinking skills as students examine events in world history and the inter-relationship of world cultures. Emphasis will be

placed on cause and effect relationships and developing the ability to present ideas clearly in evidence-based argumentation. This course integrates current events to reinforce the relevance of historical themes and to deepen students' understanding of how the modern world was shaped by these transformative periods.

US HISTORY I

Prerequisites* Successful completion of World History or Honors World History

This course will examine our nation's history from the period of Colonization to the period of Reconstruction. This course is designed to develop analytical and critical thinking skills as students relate the cultural, economic, political, historical, geographical, and social aspects of human activity. Current events are incorporated on a weekly basis.

HONORS US HISTORY I

Prerequisites* *Successful completion of World History with a minimum grade of A- or Honors World History with a minimum grade of B.

***Teacher recommendation**

This course will examine our nation's history from the period of Colonization to the period of Reconstruction. This course is designed to develop analytical and critical thinking skills as students examine events of our nation's history and the inter-relationship of our nation's cultures. Emphasis will be placed on cause-and-effect relationships and developing the ability to present ideas clearly and persuasively in written form. Current events are incorporated on a weekly basis.

US HISTORY II

Prerequisite* *Successful completion of U.S. History I or Honors US I

This course will examine our nation's history from the Progressive Movement to the present day. This course is designed to develop analytical and critical thinking skills as students relate the cultural, economic, political, historical, geographical, and social aspects of human activity. Current events are incorporated on a weekly basis.

HONORS US HISTORY II

Prerequisites* *Successful completion of U.S. History I with a minimum grade of A- or Honors U.S. History I with a minimum grade of B

***Teacher recommendation**

This course will examine our nation's history from the Progressive Movement to the present day. This course is designed to develop analytical and critical thinking skills as students examine the events of our nation's history and the inter-relationship of our nation's cultures**.** Emphasis will be placed on cause-and-effect relationships and developing the ability to present ideas clearly and persuasively in written form. Current events are incorporated on a weekly basis.

DUAL ENROLLMENT AMERICAN CIVILIZATION I

Dual Enrollment with Brookdale Community College

***Students must take the Brookdale Community College Placement test and earn a qualifying score for acceptance into the course or meet minimum SAT requirement; qualifying score and minimum SAT or ACT requirement determined by Brookdale Community College**

The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.

Prerequisites*

***Open to students in grades 11 and 12**

Students will identify and discuss problems, events, and personalities in American history which have influenced the origins and growth of the Republic from the colonial period until the Civil War (1861). History will be viewed from many perspectives.

DUAL ENROLLMENT AMERICAN CIVILIZATION II

Dual Enrollment with Brookdale Community College
The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.
Prerequisites*
***Open to students in grades 11 and 12**
***Students must take the Brookdale Community College Placement Test and earn a qualifying score for acceptance into the course or meet minimum SAT requirement; qualifying score and minimum SAT or ACT requirement determined by Brookdale Community College**.
Students will demonstrate an understanding of personalities, events, and problems in American history from the Civil War until World War II.

DUAL ENROLLMENT CONTEMPORARY WORLD HISTORY
Dual Enrollment with Brookdale Community College
The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.
Prerequisites* Open to grade 9 Early College Academy students and to students in grades 11 and 12
***Students must take the Brookdale Community College Placement Test and earn a qualifying score for acceptance into the course or meet minimum SAT requirement; qualifying score and minimum SAT or ACT requirement determined by Brookdale Community College**.
This course is designed to provide students with the framework of the contemporary world, which will be discussed by examining key historical developments since 1945, including the Cold War and the fall of communism, as well as the independence movements and revolutions in Asia, Africa, Latin America, and the Middle East. Relying on a variety of historical readings and current accounts, emphasis will be placed on understanding the historical readings and contemporary issues such as international conflict, the environment, human and natural resources, and global, cultural, and economic trends.

AP US HISTORY
Prerequisites*
Minimum grade of B in AP World History, or minimum grade of A in Honors World History, and Teacher Recommendation. Grade 11 and 12: Minimum grade of A- in Honors U.S. History I, or a minimum grade of A in U.S. History I
***Curriculum Coordinator approval**
The period from Colonial America to the present day will be covered in depth. Students will be required to complete weekly reading assignments. Skills in the critical analysis of primary source documents, the interpretation of historical changes the ability to arrive at conclusions on the basis of informed judgment and to present ideas clearly and persuasively in essay format will be strengthened. Complete in-depth research paper required. The Advanced Placement Test will be taken in lieu of the usual final exam.

AP US GOVERNMENT
***Prerequisites**
Grade 10: Honors World History and Honors English I, minimum grade of A-
***Grades 11 and 12: Honors US I and/or Honors US II, or AP World History minimum grade of B or better or AP US History with a minimum grade of B or better**
***Curriculum Coordinator approval**
This course gives students an analytical perspective on government and politics in the United States. It includes both the study of general concepts used to interpret US politics and the analysis of specific examples. Students will examine the constitutional basis of government, political beliefs and behaviors, mass media, institutions of government, and civil rights and liberties. The Advanced Placement Test will be taken in lieu of the usual final exam.

SOCIAL STUDIES ELECTIVES

HONORS INTRODUCTION TO LAW

Prerequisites* *Grade 9- Pre-Law Academy student only

Grades 11 and 12: Successful completion of Honors US I with a minimum grade of B or US I with a minimum grade of A-

The purpose of the course is to provide law-related education, practical information and problem-solving to navigate the modern legal system. This course will provide students with an introduction to law and the legal system**.** Emphasis will be placed on criminal law and the criminal justice process, juvenile justice, civil law, consumer and housing law, and family law. Analysis of current events and court cases will take place on a weekly basis.

PSYCHOLOGY

Prerequisites * *Open to all students in Grades 10, 11, and 12

This course will provide the high school student with a comprehensive introductory to Psychology course. This course will acquaint the student with the basic theories and doctrines of modern psychology along with its practical application and techniques. This course is recommended for students who wish to pursue a career in the fields of mental health, social work, medicine, education, and physical and occupational therapy.

SOCIOLOGY

Prerequisites* *Open to students in Grades 10, 11, and 12

Sociology is the science of society and the study of the social order. Upon completion of this course, students will be familiar with the concepts and many facets of socialization, social institutions, social stratification, and changes in the social order.

DUAL ENROLLMENT PSYCHOLOGY 106:

Prerequisites* (Dual enrollment with Brookdale Community College)

Brookdale Community College will determine eligibility for college credit and assess an additional fee for the credit. Students must take and pass the Brookdale Community College Placement Test offered by Brookdale Community College at SJVHS or meet the minimum SAT or ACT requirement determined by Brookdale Community College.

***A grade of A in most recent history course**

***Open to students in Grades 11 and 12**

Students will demonstrate an understanding of Psychology as an applied science. They will complete exercises covering the relevant areas: social and interpersonal behavior, motivation, emotion, stress, health and coping, psychological disorders, personality theories and the psychotherapies. Students will gain the ability to analyze a variety of theoretical perspectives from critical and diverse points of view while applying them to problems of daily living.

WORLD LANGUAGES

World Languages may be selected in any year. Incoming freshmen may be granted advanced standing in Italian or Spanish, upon recommendation from their eighth grade World Language teacher and approval from SJVHS Department Chair.

ITALIAN I

Italian I is a course designed to develop basic language competence in the four areas of listening, speaking, reading and writing. Students will also gain an appreciation and knowledge of the cultural, geographical and social characteristics of Italy and its regions, providing an opportunity to further explore the language and culture. The creative use of technology, interactive activities, TPR lessons, digital textbook activities as well as the regular use of props, games and videos will be implemented on a daily basis for the achievement of these goals.

ITALIAN II

Prerequisite* *Successful completion of Italian I

Italian II builds upon skills learned in Italian I and is designed towards more advanced listening, speaking, reading and writing skills. More advanced structures are presented through various oral and written exercises, directed dialogue and abbreviated readings. It is also designed to provide a greater cultural introspection emphasizing the immigrant experience and honoring the traditions of old world Italy.

ITALIAN III

Prerequisite* *Italian II with a minimum grade of B

Students of Italian III will further expand the listening, speaking, reading and writing skills achieved in Italian I and II. In this course, students will gain a greater understanding of the vocabulary and grammar structures that they have previously learned as they embark on a deeper cultural experience allowing them to analyze how technology and the popularity of American culture have affected the traditions, customs and old-world values of Italy in the 21st century.

HONORS ITALIAN IV

Prerequisites* *Italian III with a minimum grade of B and *Teacher recommendation

This level course will enhance students' abilities to speak, listen, read, and write in Italian. Students will also obtain a greater understanding of Italian cultural topics through films, music, and selected readings of medieval and Renaissance literary works.

HONORS ITALIAN V

Prerequisites* *Honors Italian IV with a minimum grade of B and *Teacher recommendation

This level course will enhance students' abilities to speak, listen, read, and write in Italian.
Advanced vocabulary and grammatical structures will be integrated into oral conversations and written compositions to refine Italian language skills. The course will be taught entirely in Italian.

SPANISH I

This introductory course focuses on developing strong foundational language skills through the integration of listening, speaking, reading, and writing. Students build vocabulary and learn basic grammatical structures, while also exploring cultural topics related to the Spanish-speaking world. Instruction includes a variety of oral and written activities, guided dialogue, and interactive practice designed to support effective communication and cultural understanding.

SPANISH II

Prerequisite* *Successful completion of Spanish I

This course builds on the foundational skills developed in Spanish I, expanding students' vocabulary and introducing more advanced grammatical structures. Emphasis is placed on developing oral communication skills, improving pronunciation, and strengthening listening, reading, and writing abilities. Students deepen their understanding of the Spanish-speaking world while continuing to develop confidence in real-world communication.

SPANISH III

Prerequisites* *Successful completion of Spanish II

In this course, full communication in Spanish is developed. Instruction includes the integration of listening, speaking, reading, and writing skills. The introduction of advanced vocabulary and grammar enhances the student's ability to communicate.

HONORS SPANISH IV

Prerequisites* *Spanish III with a minimum grade of B and ***Teacher recommendation**

Students will further expand the listening, speaking, reading and writing skills achieved in Spanish III. In this course, students will gain a greater understanding of the vocabulary and grammar structures they have previously learned as they embark on a deeper cultural experience allowing them to analyze and reflect on diverse human values and perspectives that may differ from their own.

HONORS SPANISH V

Prerequisites* *Honors Spanish IV with a minimum grade of B and *Teacher recommendation

This course aims to extend proficiency in language skills to an advanced level. Extensive reading of varied materials and topics, advanced vocabulary, composition and performing orally with facility will be the focus. The course will be fully taught in Spanish.

EARLY COLLEGE ACADEMY COURSES

Students must pass the Brookdale Community College Placement Test administered by Brookdale Community College before a student can take any of the Early College Academy courses listed below. ACAD College Studies is the only course that can be taken before passing the Brookdale Community College Placement Test.

ENGLISH

ECA DUAL ENROLLMENT ENGLISH COMP I

***Open only to grade 10 Early College Academy students**

English Comp I is an introductory writing course in which students compose and revise narrative and expository essays and prepare for the study of literature by using writing to analyze texts. Through a writer's workshop approach, students explore the writing process, respond to a variety of texts, and learn to communicate their ideas effectively and confidently in writing.

ECA DUAL ENROLLMENT ENGLISH COMP II

***Open only to grade 11 Early College Academy students**

This course teaches techniques and strategies for conducting research and for writing effectively on a range of subjects. Students learn to write and revise persuasive papers using critical thinking skills and information they find to support an assertion or position. Related reasoning and support for papers necessitates inquiry into social ethics and moral situations. Students learn to analyze and process this information using foundational principles of logic, ethical reasoning, and social morals. Students also learn and demonstrate proper documentation style.

ECA DUAL ENROLLMENT SHORT STORY

***Open only to grade 10 Early College Academy students**

Students will read and discuss short stories drawn from the literature of many cultures and countries. They will analyze the stories for theme, form, relationship to their own lives, and reflection of various cultures. The relevance of these short stories for the modern reader will be examined.

MATHEMATICS

ECA DUAL ENROLLMENT PRE-CALC

***Open only to grade 10 Early College Academy students**

This course prepares students for the study of calculus. Problems are approached from a variety of perspectives, including graphical, numerical, verbal, and algebraic. The topics require students to exhibit critical thinking skills as they analyze a variety of problems, create functions from a problem situation, and solve optimization problems using those functions. Students use their calculators and their understanding of the behavior of functions to perform regression analysis on data sets, including linear, quadratic, exponential, logistic, and sinusoidal models. Types of functions studied include rational, inverse trigonometric, exponential, and logarithmic. Parametric equations are introduced and used to define circles, ellipses, and hyperbolas. A graphing calculator is required; the specific model is determined by the department.

ECA DUAL ENROLLMENT CALCULUS I (Optional for A.A. in Social Sciences; required for A.S. in Computer Sciences)

***Open only to grade 11 Early College Academy students who have earned a C or higher in ACAD Pre-Calc**

This is a first semester scientific calculus course, and the topics include limits, continuity, derivatives and their applications, and integrals, including the Fundamental Theorems. Algebraic, trigonometric, inverse trigonometric, exponential, and logarithmic functions will be studied. Problems are approached from a variety of perspectives, including graphical, numerical, verbal, and algebraic. Computer software will be used extensively in class to gain a greater understanding of concepts as well as to consider non-routine problems.

ECA DUAL ENROLLMENT STATISTICS

Dual enrollment with Brookdale Community College

Prerequisites* *Brookdale Community College will determine eligibility for college credit and assess an additional fee for the credit. Students must pass Brookdale Community College Placement Test to meet minimum SAT or ACT requirement determined by Brookdale Community College.

***Open to students in grades 11 and 12, B- or higher in Honors Algebra 2/Trig, or Algebra 2/Trig with an A or higher AND Honors English II with a B or English II with A or higher.**

This course begins with descriptive statistics, including graphical representations of data and measures of central tendency, position and variation. Basic probability concepts lead to the study of the binomial and normal probability distributions. The course continues with the Central Limit Theorem and its use in the development of estimation through confidence intervals and hypothesis testing. The course concludes with Chi Squares tests and linear correlation and regression. Computer software will be used in class to gain a greater understanding of underlying concepts.

SOCIAL STUDIES

ECA DUAL ENROLLMENT COLLEGE STUDIES

***Open only to grade 9 Early College Academy students**

Students learn to identify and practice a variety of skills and behaviors that can foster success in college and work. Students will explore their values and academic goals through individual projects, class exercises, and group interaction. This course will be taken in the student's first term at Saint John Vianney High School.

ECA DUAL ENROLLMENT CONTEMPORARY WORLD HISTORY

***Open only to grade 9 Early College Academy students (Social Science track students must take).**

This course is designed to provide students with the framework of the contemporary world which will be discussed by examining key historical developments since 1945, including the Cold War and the fall of communism, as well and the independence movements and revolutions in Asia, Africa, Latin America, and the Middle East. Relying on a variety of historical readings and current accounts, emphasis will be placed on understanding the historical readings and contemporary issues such as international conflict, the environment, human and natural resources, and global cultural and economic trends.

ECA DUAL ENROLLMENT US HISTORY I

***Open only to grade 11 Early College Academy students**

Students will identify and discuss problems, events and personalities in American History which have influenced the origins and growth of the Republic from the colonial period until the Civil War (1861). History will be viewed from many perspectives.

ECA DUAL ENROLLMENT US HISTORY II

***Open only to grade 11 Early College Academy students who have completed ACAD US History I**

Students will demonstrate an understanding of personalities, events and problems in American history from the Civil War until World War II.

ECA DUAL ENROLLMENT PSYCHOLOGY 106:

***Open only to grade 11 Early College Academy students**

Students will demonstrate an understanding of Psychology as an applied science. They will complete exercises covering the relevant areas: social and interpersonal behavior, motivation, emotion, stress, health and coping, psychological disorders, personality theories and the psychotherapies. Students will gain the ability to analyze a variety of theoretical perspectives from critical and diverse points of view while applying them to problems of daily living.

WORLD LANGUAGES

ECA DUAL ENROLLMENT SPANISH I
***Open only to grade 9 Early College Academy students**
This course is designed for students with no previous knowledge, or very limited knowledge, of the Spanish language. Strong emphasis will be placed on acquiring conversational and comprehension skills, using practical and interesting situational materials that will stress both language and culture. Grammatical patterns and syntax will be introduced with the aim that students read and write what they have learned to say and understand. **(This course is not open to native Spanish speakers.)**

ECA DUAL ENROLLMENT SPANISH II
***Open only to grade 10 Early College Academy students with a grade of C or higher in ACAD Spanish I or teacher recommendation.**
In this course students will build upon skills learned in ACAD Spanish I and will be able to express themselves in a variety of new and more complex situations in Spanish. **(This course is not open to native Spanish speakers.)**

COMPUTER SCIENCE

ECA DUAL ENROLLMENT COMP LOGIC AND DESIGN
***Open only to grade 9 Early College Academy students**
This course provides students with an introduction to computer systems. The topics include computer components, computer programming logic using design structures, developing algorithms, coding programs, and debugging program code.

ECA DUAL ENROLLMENT DATABASE CONCEPTS
Dual Enrollment with Brookdale Community College
The cooperating college/university will determine eligibility for college credit and assess an additional fee for the credit.
Prerequisite* * Completion of DE Computer Logic and Design
***Open to students in grades 11 and 12**
This course covers how to analyze data and effectively design databases. The fundamental concepts of relational database design, implementation, and administration are presented. Design concepts include entity relationship modeling and normalization. The relation design is developed using a modeling tool. Database implementation and administration are covered through basic and advanced SQL.

ECA DUAL ENROLLMENT PROGRAMMING I
***Open to Early College Academy students in grade 10 and successful completion of ACAD Comp Logic and Design with a C or higher.**
The student will be able to analyze a variety of problems, develop algorithms to solve those problems and code solutions using JAVA. The fundamentals of software development, which includes logic, control structures, arrays, methods, classes, documentation techniques, testing, and debugging, are covered. Assignments give students hands-on experience to design, write, test, debug and edit their program code using an integrated development.

ECA DUAL ENROLLMENT PROGRAMMING II
***Open to Early College Academy students in grade 10 and successful completion of ACAD Programming I with a C or higher.**
This course continues the development of problem-solving, logical thinking and object-oriented programming techniques using JAVA. Topics and techniques covered include design features from objects, classes and objects as encapsulation tools, inheritance and hierarchies among classes, polymorphism, exception handling and GUI/event-driven programming.

Assignments give students hands-on experience to design, write, test, debug and edit their program code using an integrated development environment.

ECA DUAL ENROLLMENT SYSTEMS ANALYSIS AND DESIGN

***Open to Early College Academy students in grade 11 and successful completion of ACAD Comp Logic and Design, ACAD Programming I, and ACAD Programming II**

Students will acquire working knowledge of principles, methods, and procedures required to develop a computerized information system. They will be able to identify, describe, and perform the various tasks associated with computer system development, particularly in systems planning, management, analysis and design, implementation and support.

*****Saint John Vianney High School reserves the right to make any corrections, additions, or deletions to the Course of Studies Guide in accordance with any of the following: Diocese of Trenton, New Jersey Department of Education, the Saint John Vianney Administration, the Saint John Vianney Curriculum Committee, Brookdale Community College, Georgian Court University, University of Delaware, and Seton Hall University.*****