

Bishop
John J.
 Snyder
High School

2021-2022
Course Catalog

TABLE OF CONTENTS

GENERAL INFORMATION

Graduation Requirements and Course Sequence	3
Criteria for Honors and Advanced Placement Courses	4
Placement and Schedule Change Policy	4

2021-2022 COURSE OFFERINGS – subject to change

Religion	5
Language Arts	8
Mathematics	10
Social Studies	12
Science	15
World Language	18
Physical Education	20
Music	21
Art	22
Technology	23

GRADUATION REQUIREMENTS

1) A total of 28 credits must be earned in the following subject areas:

Religion	4 credits
English	4 credits
Mathematics - including Algebra I , Algebra II and Geometry	4 credits
Social Studies – World History, American History, American Government, and Economics	3 credits
Science - including Biology and Chemistry	3 credits
World Language	2 credits of same language
Practical/Performing Arts	1 credit
Physical Education	1 credit
Elective*	6 credits

*Students may opt to take additional core academic courses in the 11th and 12th grades to fulfill this requirement.

The following courses fulfill the practical/performing art requirement:

Art I, II, IIIH, IVH	Guitar I	Digital Information Technology
AP 2-D Art and Design	Band I-IV	Web Development
Chorus I-IV	Intro to Violin	Graphic Design - Yearbook

2) A cumulative grade point average (GPA) of 2.0 or higher must be earned in all courses attempted in grades 9-12.

BASIC COURSE SEQUENCE

<u>9TH GRADE</u>	<u>10TH GRADE</u>	<u>11TH GRADE</u>	<u>12TH GRADE</u>
Religion	Religion	Religion	Religion
English I	World Literature	American Literature	British Literature
Math	Math	Math	Math
P.E.	World History	American History	Economics/Gov
Biology	Chemistry	Physics*	Elective
World Language I	World Language II	Elective	Elective
Elective	Elective	Elective	Elective

*Recommended, but not required

CRITERIA FOR HONORS and ADVANCED PLACEMENT COURSE RECOMMENDATION

Criteria for **HONORS** course recommendation:

1. The student:
 - a) has an excellent attendance record
 - b) works independently
 - c) follows directions
 - d) demonstrates intellectual maturity and commitment to academics
 - e) maintains a positive attitude
 - f) completes all required assignments
 - g) exhibits exemplary behavior
2. At the time of teacher recommendation (early in the fourth quarter), the student has an overall average of 80 or better in the previous subject-related **HONORS** course or an overall average of 90 or better in the previous subject-related **STANDARD** course. NOTE: Students must have an overall average of 85 or better in world language courses in order to be recommended for an honors-level course.

Criteria for **AP** course recommendation:

The student must have an overall average of 90 or better in the subject-related honors course **or** an overall average of 80 or better in the subject-related AP course **and** approval of both the current teacher and the AP teacher. **AP placement decisions cannot be appealed or waived.**

NOTE: All students enrolled in an AP course are **REQUIRED** to take the AP Examination at a cost of \$95 (at time of printing).

WAIVER REQUESTS

Waiver requests (maximum of two) must be submitted to the School Counseling Office before August 1 and require completion of all prerequisites, a minimum 2.5 cumulative weighted GPA, a parent-counselor conference, and approval of the Dean of Academics.

PLACEMENT AND SCHEDULE CHANGE POLICY

Freshman placement in English, mathematics, and science will be determined by the Placement Committee based on teacher recommendations, the 8th grade report card, standardized test scores, and High School Placement Test (HSPT) scores. World language, P.E., and elective preferences will be indicated by each student on the Course Request Form mailed out in April.

For current students, placement in all core-subject courses will be based on teacher recommendations and grades earned while at Snyder. Some elective classes require application, interview, and/or approval. Direct any questions regarding placement or approval to School Counseling.

Schedule change requests must be submitted for consideration **by the end of the second full week of classes**, after which only *teacher-initiated* schedule changes for students *with below a 60 average* will be considered. All schedule changes require approval of the Dean of Academics and are subject to class-size limitations and master schedule constraints.

RELIGION

The Religion department works collaboratively with the Office of Campus Ministry to prepare students for living in the light of Christ's message in today's world. This is accomplished through a combination of academic coursework, annual retreats and days of reflection, liturgical celebrations, and providing opportunities for students to fulfill their annual 25-hour Christian service requirement. The curriculum includes eight semester-long courses dealing with Christocentric themes that are central and fundamental to a life of faith.

RELIGION 9A (.5 credit)

The Revelation of Jesus Christ in Scripture

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course, students will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with its major sections and the books included in each section. Particular attention is given to the Gospels so that students may come to know and love Jesus Christ more personally.

RELIGION 9B (.5 credit)

Who is Jesus Christ?

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course, students will come to understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

RELIGION 10A (.5 credit)

The Mission of Jesus Christ (The Paschal Mystery)

The purpose of this course is to help students understand all that God has done for us through His Son, Jesus Christ. In this course, students will learn that God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

RELIGION 10B (.5 credit)

Jesus Christ's Mission Continues in the Church

The purpose of this course is to help students see that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn about the sacred nature of the Church.

RELIGION 11A (.5 credit)***Sacraments as Privileged Encounters with Christ***

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

RELIGION 11B (.5 credit)***Responding to the Call of Jesus Christ***

The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students will learn how the vocations of married life, single life, priestly life, and consecrated life are similar and how they differ. Students will learn what it means to live life for the benefit of others and the value of considering a vocation in service to the Christian community.

RELIGION 12A (.5 credit)***Life in Jesus Christ***

The purpose of this course is to help students understand that it is only through Christ that they can fully live God's plans for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples.

RELIGION 12B (.5 credit)***The Gospel of Life***

The purpose of this course is to examine the meaning of human life as a gift of God, the fruit and sign of His love. The course will examine cultural, legislative, service and spiritual opportunities to respond to the present threats to life. Through the study of Sacred Scripture and Church documents, particularly the Encyclical Letter *Evangelium Vitae*, students will explore foundational principles and major themes of Catholic Social Doctrine and identify the many ways in which they can respond to life issues in a manner that is consistent with the teachings of the Church.

CAMPUS MINISTRY I and II (1 credit)

Prerequisite: Sophomores, juniors and seniors only, application, teacher recommendation (2), interview

The purpose of this course is to allow students a first-hand experience of living out the Gospel message through service to the Bishop John J. Snyder High School community and to the Diocese of St. Augustine. Making use of class retreats, school liturgies and prayer services, and a variety of service projects, the goal of the course is to put faith into practice. Students will learn to plan and implement opportunities for spiritual growth, discover ways to use their personal gifts to serve others, learn and practice principles of peer ministry, and grow in personal prayer life.

WORLD RELIGIONS (.5 credit)**Prerequisite: Sophomores, juniors, and seniors only**

In this comparative study of great world religions, students have the opportunity to examine other faith traditions, thereby giving their own beliefs new meaning and fresh perspective. The course explores the religious beliefs of many different religions, including Hinduism, Buddhism, Judaism, Christianity and Islam. Students will examine religion as an inseparable part of every culture and learn about multiple traditions. Students will examine the similarities and differences that these religions have in relationship to each other and with Catholic Christianity. This course approaches world religions with a thematic approach exploring such themes as religion and justice, religion and social activism, and prayer and meditation practices and healing ceremonies. Group projects focus on looking at each religion through its ritual and practice. This course is designed to assist students in their own journey while also understanding the journeys of others.

WOMEN IN THE BIBLE (.5 credit)**Prerequisite: Sophomores, juniors, and seniors only**

In this study of women in the Bible, students have the opportunity to examine stories and writings about women found in Scripture. The course will focus on the contributions of biblical women to the life, culture, religion, and history of Israel and Catholic Christianity. Students will also explore the interpretation of their stories over time.

LANGUAGE ARTS

ENGLISH I (1 credit)

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness.

ENGLISH I HONORS (1 credit)

Prerequisite: Honors criteria and approval of Placement Committee

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. Students will analyze and interpret texts of high complexity.

ENGLISH II (1 credit)

Prerequisite: English I

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. Students will survey works of world literature.

ENGLISH II HONORS (1 credit)

Prerequisite: Honors criteria

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. Students will analyze and interpret texts of high complexity.

ENGLISH III (1 credit)

Prerequisite: English II

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. Students will survey eighteenth-, nineteenth-, and early-twentieth-century foundational works of American literature.

ENGLISH III HONORS (1 credit)

Prerequisite: Honors criteria

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. Students will survey eighteenth-, nineteenth-, and early-twentieth-century foundational works of American literature. Students will analyze and interpret texts of high complexity.

ENGLISH IV (1 credit)

Prerequisite: English III

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. The student's experience with literature will include the works of Shakespeare.

ENGLISH IV HONORS (1 credit)

Prerequisite: Honors criteria

The purpose of this course is to provide students integrated language arts study in reading, writing, speaking, listening, language, and literature in preparation for college readiness. The student's experience with literature will include the works of Shakespeare and texts of high complexity.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (1 credit)

Prerequisite: Juniors only, English II Honors and AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

The purpose of this course is to provide students with an understanding of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. The course also provides a variety of writing opportunities calling for the use of different styles and tones.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (1 credit)

Prerequisite: Seniors only, English III Honors and AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

The College Board describes this course as an opportunity “to learn to analyze and interpret imaginative literature through the careful reading of representative works from various genres and periods.”

MATHEMATICS

ALGEBRA I (1 credit)

Content includes variables, structure and properties of the real number system, equations and inequalities, polynomials, linear equations and their graphs, systems of equations and inequalities, rational and radical expressions and equations, relations and functions, quadratic equations, and problem solving strategies needed for success and continued studies in algebra.

GEOMETRY (1 credit)

Prerequisite: Algebra I

Content includes angles, segments, lines, rays, triangles, polygons, planes, parallel and perpendicular lines, congruence, similarity, circles, quadrilaterals, the Pythagorean Theorem, area, volume, trigonometry and proofs.

GEOMETRY HONORS (1 credit)

Prerequisite: Algebra I, Honors criteria and/or approval of Placement Committee

This course provides a more rigorous study of the topics listed for Geometry. Emphasis is placed on student-generated proofs and applications.

ALGEBRA II (1 credit)

Prerequisite: Algebra I and Geometry

Content includes real numbers and operations, variables and exponents, solving equations and inequalities, linear relations and functions, graphing, systems of equations and inequalities, matrices and determinants, radicals, complex numbers, logarithms and conic sections.

ALGEBRA II HONORS (1 credit)

Prerequisite: Honors criteria AND final grade of 85+ in Algebra I or final grade of 90+ in 8th-grade algebra

This course provides a more rigorous study of the topics listed above for Algebra II. Emphasis is placed on the graphs and applications of linear, quadratic, polynomial, radical, absolute value, rational, exponential, and logarithmic functions.

PROBABILITY AND STATISTICS (1 credit)

Prerequisite: Algebra II

Content includes measures of central tendency, standard deviation, regression and correlation, probability, and standard normal distributions. Students will develop and apply knowledge of statistics and probability to design experiments, collect and analyze data, and form appropriate inferences and conclusions.

PROBABILITY AND STATISTICS HONORS (1 credit)

Prerequisite: Algebra II and Honors Criteria

This course provides a more rigorous study of the topics listed above for Probability and Statistics. Emphasis is placed on real-world application of these topics.

ADVANCED PLACEMENT STATISTICS (1 credit)

Prerequisite: Algebra II Honors with a final grade of 90+ OR either Pre-calculus Honors or Statistics Honors with a final grade of 85+, AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

This course provides students the opportunity to develop analytical and critical thinking skills as they learn to describe data patterns, explore the concept of randomness, make predictions, test hypotheses, and make statistical inferences about populations. Students will design, execute, and analyze statistical studies as they engage in a variety of labs, simulations, and projects.

MATH FOR COLLEGE READINESS (1 credit)

Prerequisite: Seniors only, Geometry and Algebra II

This course provides students additional instruction in algebra, probability, statistics, and geometry in order to better prepare them for college-level mathematics. Additionally, emphasis is placed on application of math to solve financial problems related to investment, credit, banking, auto insurance, mortgage, employment, income tax, and budgeting.

PRE-CALCULUS HONORS (1 credit)

Prerequisite: Algebra II Honors and Honors criteria

This course completes the student's preparation for a college-level calculus course. Content includes graphs and applications of polynomial, exponential, logarithmic, and trigonometric functions, as well as vectors, parametric equations, limits, and sequences and series. Students will develop problem-solving skills and clarity of mathematical thought and expression.

ADVANCED PLACEMENT CALCULUS AB (1 credit)

Prerequisite: Pre-Calculus Honors with a final grade of 90+ and AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

AP Calculus AB is a college-level, rigorous course in single-variable calculus that includes a study of algebraic and transcendental functions, limits, continuity, differentiation techniques and applications of derivatives, and integration techniques and applications of integrals.

SOCIAL STUDIES

GEOGRAPHY (1 credit)

This course emphasizes regional geography with attention to the influence of physical features of the region on the lives of the people. Students use and develop basic social science skills including map use and interpretation. Freshmen are strongly encouraged to take this course if they plan to pursue eligibility for AP World History.

WORLD HISTORY (1 credit)

This course is a survey of the human experience from the earliest civilizations to contemporary times. The course will examine historical themes and major turning points significant to world history. Students will learn to understand the political, economic and cultural systems of each civilization studied.

WORLD HISTORY HONORS (1 credit)

Prerequisite: Honors criteria

This course explores the same topics as World History (see above) in more depth. Students will use critical and higher level thinking skills to engage with complex readings, respond to document-based questions, analyze primary sources, and construct historical essays.

ADVANCED PLACEMENT WORLD HISTORY (1 credit)

Prerequisite: Recommendation of AP World History Placement Committee

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

In this rigorous, college-level course, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. Students explore six themes throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. To this end, considerable time is devoted to the critical evaluation of primary and secondary sources, analysis of historiography (the principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world.

AMERICAN HISTORY (1 credit)

This course acquaints students with the significant events, eras, trends and themes of American history. Students will examine the nation's politics, economics, geography, society, culture and religion from pre-colonial times to the present.

AMERICAN HISTORY HONORS (1 credit)

Prerequisite: Honors criteria

This course explores the same topics as American History (see above) in more depth. There is strong emphasis on the development of skills readily acquired through the study of historical texts and primary sources – analytical reading and writing, critical thinking, public speaking and debating.

ADVANCED PLACEMENT UNITED STATES HISTORY

Prerequisite: AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

In this course, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

AMERICAN GOVERNMENT (.5 credit)

The purpose of this course is to enable students to gain an understanding of American government and political behavior that is essential for effective citizenship and active involvement in a democratic American society. The course includes an in-depth study of the three branches of the federal government, as well as developing student understanding of government at the state and local levels.

AMERICAN GOVERNMENT HONORS (.5 credit)

Prerequisite: Honors criteria

This course explores the same topics as American Government (see above) in more depth. Students will use critical and higher level thinking skills to engage with complex readings, respond to document-based questions, and analyze primary sources.

ADVANCED PLACEMENT U.S. GOVERNMENT (.5 credit)

Prerequisite: AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

ECONOMICS (.5 credit)

The purpose of this course is to provide students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its wants. Students will gain understanding of choices they must make as producers, consumers, investors, and taxpayers.

ECONOMICS HONORS (.5 credit)

Prerequisite: Honors criteria

This course explores the same topics as Economics (see above) in more depth. Students will use critical and higher level thinking skills as they learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

ADVANCED PLACEMENT MACROECONOMICS (.5 credit)

Prerequisite: AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

This is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

PSYCHOLOGY (.5 credit)

Prerequisite: Juniors and seniors only

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. This will better prepare them to understand their own behavior and the behavior of others.

SOCIOLOGY (.5 credit)

Prerequisite: Juniors and seniors only

Through the study of sociology, students acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society.

SCIENCE

PHYSICAL SCIENCE (1 credit)

This course covers the basic principles of physics and chemistry. Topics include force and motion, Newton's laws, mechanics, light, sound, electricity, thermodynamics, magnetism, atomic theory, periodic table, bonding, chemical reactions and nuclear chemistry. Labs are offered as appropriate to the material. The course is designed to build a better foundation in both chemistry and physics.

BIOLOGY (1 credit)

This course is the study of the characteristics and life processes of living organisms. Course content includes the nature of science, the chemistry of biology, cell theory, heredity and molecular genetics, biological evolution and diversity, taxonomy and classification, principles of ecology, and basic structure and function for invertebrates, vertebrates and plants. Laboratory exercises are required and are used to enhance the understanding of these concepts. Dissection of selected animal and plant specimens is a required element of the course.

BIOLOGY HONORS (1 credit)

Prerequisite: Honors criteria and approval of Placement Committee

This rigorous course emphasizes laboratory inquiry in developing student-discovered concepts in the classroom. Factual learning and critical thinking dominate discussions. Classical biological themes as well as the most up-to-date discoveries are explored. Emphasis is placed on such topics as history of biology, the environment, and structure as it relates to function, interaction of organisms, diversity and similarity of living things, genetics, evolution, biological processes, and social and ethical issues.

CHEMISTRY (1 credit)

Prerequisite: Algebra I

This course is the study of the composition and properties of matter and the changes it undergoes. Course content includes the nature of science, standards of measurement, atomic theory, chemical bonding, stoichiometry, behavior of gases, and an introduction to solutions, as well as acids and bases. Critical thinking and problem solving skills are developed through classroom discussions, demonstrations and laboratory exercises.

CHEMISTRY HONORS (1 credit)

Prerequisite: Honors criteria and Algebra I with a final grade of 80+

This course is taught through a more rigorous and math-oriented approach than the standard chemistry course. In addition to the topics covered in the standard course, this course includes a more in-depth study of molar volume, stoichiometry of gases, and acids and bases. Critical thinking and problem solving skills are developed at a higher level than for the standard course, and are reflected in the laboratory exercises.

PHYSICS HONORS (1 credit)

Prerequisite: Honors criteria, Chemistry, and Algebra II with a final grade of 80+

This course provides opportunities to study the concepts, theories and laws governing the interaction of matter, energy and forces, and their applications through exploratory investigations, demonstrations, and activities. This course is math intensive mandating previous completion and mastery of Algebra II before enrollment.

FORENSIC SCIENCE (1 credit)

Prerequisite: Biology and Chemistry

This course applies many disciplines of scientific study such as biology, chemistry and physics, to solving crimes. Students will gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators including, but not limited to, evidence collection, fiber analysis, fingerprint analysis, ballistics, and blood evidence. Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course.

ASTRONOMY (1 credit)

Prerequisite: Chemistry

This course is the study of objects that make up the solar system, stars, and structure of the universe as a whole. Course content includes the nature of science, standard measurements, historical astronomy, astronomical instrumentation, celestial sphere, solar system astronomy, stellar life cycle, and structure of larger astronomical objects. Critical thinking skills are developed through classroom discussions, demonstrations, and laboratory exercises through the application of conceptual chemistry and physics principles.

MARINE SCIENCE (1 credit)

Prerequisite: Biology and Chemistry

This course is the study of the marine environment and the organisms that inhabit it. Course content includes plate tectonics, physical and chemical oceanography, marine ecology, taxonomy and classification, and comparative marine anatomy. Required laboratory exercises are designed to enhance the understanding of these concepts and include dissections of select marine invertebrates and vertebrates.

ANATOMY AND PHYSIOLOGY HONORS (1 credit)

Prerequisite: Juniors and seniors only, Biology, Chemistry, and Honors criteria

This course is a study of the structure and function of the human body systems: cell, tissue, and organ anatomy, physiology from the molecular level to the interdependence of organs and systems in maintaining homeostasis, as well as development and dysfunction of these systems. Current technological advances are explored. Significant mammalian dissection lab work is mandatory.

CHEMISTRY II HONORS (1 credit)

Prerequisite: Chemistry Honors and AP criteria

Chemistry II Honors is an advanced, lab-intensive, and inquiry-based chemistry course. Understanding of the topics introduced in Chemistry Honors is deepened and more advanced topics are studied through participation in the required Advanced Placement Chemistry laboratory exercises.

ADVANCED PLACEMENT CHEMISTRY

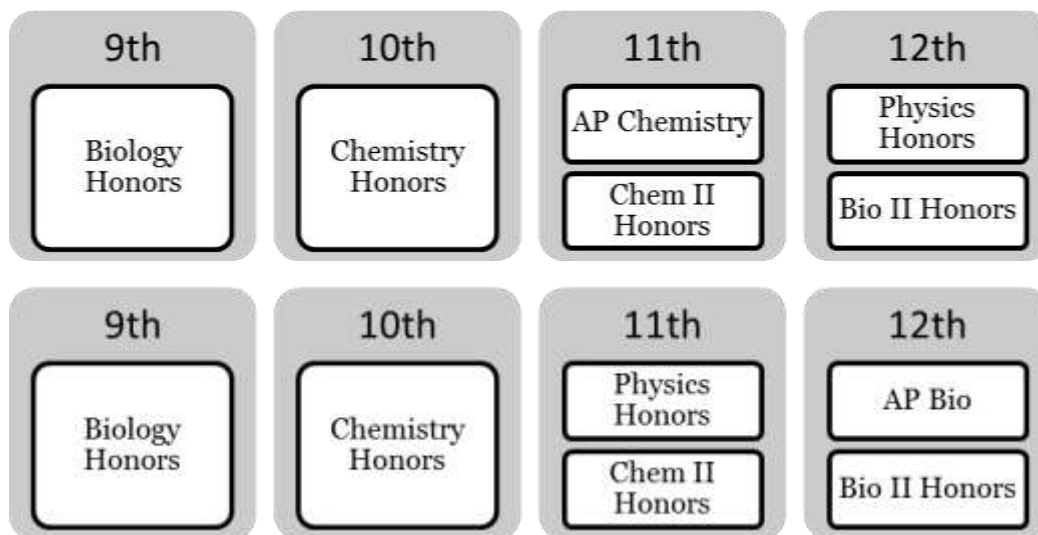
Prerequisite: Chemistry Honors and AP criteria

Co-requisite: Chemistry II Honors

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

Advanced Placement Chemistry is the equivalent of a college-level introductory chemistry course. Students are expected to have very good critical thinking and problem solving skills prior to entering the course. This course briefly touches on the topics covered in the high school course, and then emphasizes the following topics in preparation for the AP Chemistry Exam: reaction kinetics, thermochemistry, solution chemistry, solution and acid/base chemistry (including pH and buffers), equilibrium, nuclear chemistry, and an introduction to organic chemistry.

NOTE: Our rich science curriculum affords the serious science student the opportunity to earn up to six (6) science credits, with a specialization in either biology or chemistry. The following chart shows two possible science course progressions for the specialist:



WORLD LANGUAGE

FRENCH I (1 credit)

This course introduces students to the target language and its culture. The student will develop communication skills in all three modes of communication. An introduction to reading and writing is also included, as well as culture, connections, comparisons, and communities.

FRENCH II (1 credit)

This course reinforces fundamental skills acquired by the students in French I. The student will develop increased listening, speaking, reading, and writing skills as well as a deeper cultural awareness.

FRENCH III HONORS (1 credit)

Prerequisite: French II with a final grade of 85+ and Honors criteria

This course is designed to promote oral and written expression. Students read and discuss the French language to strengthen listening and speaking skills. Writing is taught and practiced throughout the year for further refinement and usage of grammatical concepts. The class will often be conducted in French and include cultural discussions.

FRENCH IV HONORS (1 credit)

Prerequisite: French III Honors and Honors criteria

This course is designed to enhance proficiency in French through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading, and writing skills. Experiences with French literature are broadened. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course.

SPANISH I (1 credit)

This course introduces the students to not only the Spanish language, but also to the culture of Spanish-speaking countries. The classes use a variety of resources, including workbooks and websites, to enhance learning and create a variety of written, oral and orally based projects.

SPANISH II (1 credit)

This course continues the work of the first year with more intensive communication in the target language. Studies continue to stress all five of the foreign language standards: communication, culture, communities, comparisons and connections. More original thought and expression are developed through reading, writing and listening exercises.

SPANISH III HONORS (1 credit)

Prerequisite: Spanish II with a final grade of 85+ and Honors criteria

This course is designed to promote oral and written expression. Students read and discuss to strengthen listening and speaking skills. Writing is taught and practiced throughout the year for further refinement and usage of grammatical concepts. The class will be conducted mostly in Spanish and with cultural discussions.

SPANISH IV HONORS (1 credit)

Prerequisite: Spanish III Honors and Honors criteria

This course will enable students to enhance proficiency in Spanish through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading, and writing skills. Experiences with Spanish literature are broadened. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course.

AP SPANISH LANGUAGE AND CULTURE (1 credit)

Prerequisite: Spanish III Honors and AP criteria

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

PHYSICAL EDUCATION

PERSONAL FITNESS (.5 credit)

This is a required class for all incoming freshman students. The class includes one semester of Personal Fitness with a health/life management skills component. In this course, students will learn what is required to maintain and improve their level of physical fitness. The health/life management skills component is designed to give the students an understanding of health and life issues that affect their daily lives.

The following PE courses satisfy the additional State of Florida PE requirement:

TEAM SPORTS I-III (.5 credit each)

In these courses, students spend time playing different sports to gain experience in these activities and improve skill level. Both Team Sports classes provide the students with the basic skills needed to play team sports, and also teach the physical and mental benefits of using these activities as part of a physical fitness program. One of the key objectives of the classes is to allow the students to have fun playing these sports.

BEGINNING WEIGHT TRAINING (BWT) (.5 credit)

This course enables students to acquire knowledge and skills in weight training, improve muscular strength and endurance, and begin to enhance self-image. Course content includes safety practices, terminology, musculoskeletal system, muscular strength and endurance, theories, concepts and skills, weight training programs, fitness assessment, nutrition, and consumer issues.

INTERMEDIATE WEIGHT TRAINING (IWT) (.5 credit)

This course develops intermediate-level skills in weight training, further improves muscular strength and endurance, and further enhances self-image.

ADVANCED WEIGHT TRAINING (AWT) (.5 credit)

This course develops advanced skills in weight training, further improves muscular strength and endurance, and further enhances self-image.

ATHLETIC TRAINING (1 credit)

Prerequisite: Recommendation of coach or PE faculty

This course is designed for the serious high school athlete with a desire to gain strength and speed. Student athletes will participate in a long-term athletic development training program.

MUSIC

BJS performance groups provide music for community and school functions, present concerts, and participate in festivals and exhibitions. Attendance at afternoon rehearsals is required of all music students to varying degrees, and public performances are an important part of each curriculum. Please contact the music director about working within the schedules of BJS extracurricular activities.

INTRODUCTION TO VIOLIN (1 credit)

This course provides an entry level study of orchestral string performance on the violin. No prior music experience is required. Students learn the basic mechanics of tone production (grip, bowing, pizzicato), learn to read music, develop an understanding of basic music theory, develop ensemble skills, and gain understanding of the general historical ties to the music studied.

BAND I (1 credit)

This course is open to beginning level woodwind, brass, and percussion musicians (other instruments may be allowed with special permission). No prior music experience is required. All students are performing members of the Cardinal Pep Band/Drum Line and Concert Ensemble. Attendance at band camp is expected.

BAND II-IV (1 credit)

Prerequisite: Instructor approval

These courses include intermediate to advanced woodwind, brass, and percussion musicians (other instruments may be allowed with special permission). All students are performing members of the Cardinal Pep Band/Drum line and concert/jazz ensembles (all combine Band I-IV students). Attendance at band camp is expected.

GUITAR I (1 credit)

This course provides an entry level study of guitar methods and literature. Students will develop basic skills in guitar performance and music theory, including interpretation of traditional musical notation, tablature, and chord charts. Classical repertoire and techniques will be emphasized.

CHORUS I (1 credit)

Prerequisite: Application and Instructor Approval

This course is an entry-level study of choral skills and literature. No previous musical experience is necessary. All chorus students rehearse and perform concert music, musical theatre/glee club selections, and music for Masses. The course is open to all voice parts. Intermediate to advanced level piano players needed as accompanists (special permission required)

CHORUS II-IV (1 credit)

Prerequisite: Instructor approval

These courses provide an intermediate to advanced study of choral skills and literature. All chorus students rehearse and perform concert music, musical theatre/glee club selections, and music for Masses. The course is open to all voice parts. Intermediate to advanced level piano players needed as accompanists (special permission required).

ART

ART I: Art & Design I (1 credit)

This course teaches students how to manipulate the structural elements of art and the organizational principles of design from observation, research, and one's imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on projects and consumption of art materials.

ART II: Art and Design II (1 credit)

Prerequisite: Art I with a final grade of 85+ and instructor approval

This course teaches students to further develop and refine technical skills through exploring a variety of materials and methods such as sculpture, printmaking, assemblage, etc. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on projects and consumption of art materials.

ART III Honors: Comprehensive (1 credit)

Prerequisite: Art II and Honors Criteria

This course builds upon one's knowledge of the core elements of art and principles of design through relating to the socio-cultural and historical contexts of art. Combining lecture, discussion and research projects, students continue to develop their understanding of art concepts, criticism and aesthetic analysis, technical and media skills.

ART IV Honors: Portfolio (1 credit)

Prerequisite: Seniors only, Art III Honors with a final grade of 90+ and approval of instructor

This course prepares students who are interested in exploring a professional art pathway. Students work in a self-directed environment to develop a portfolio exhibiting a body of their own work that visually explores a particular artistic concern, articulated and supported by a written artist's statement. In keeping with the rigor expected in an accelerated setting, students' portfolios show personal vision and artistic growth over time, mastery of visual art skills and techniques, and evidence of sophisticated analytical and problem-solving skills based on their structural, historical, and cultural knowledge. This course incorporates hands-on projects and consumption of art materials.

AP 2-D ART AND DESIGN (1 credit)

Prerequisite: Seniors only, AP criteria and approval of instructor through an application process

Students enrolled in this course are **required** to take the AP Examination at a cost of \$95 (at time of printing).

As per the College Board, students will create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of the school year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

TECHNOLOGY

DIGITAL INFORMATION TECHNOLOGY (1 credit)

This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.

WEB DEVELOPMENT (1 credit)

Prerequisite: Computer Applications or Digital Information Technology

This course will introduce students to extensible markup language (XML) which is used for storing and manipulating data, as well as how to transfer XML files to a hypertext markup language (HTML). Students will learn a brief history of the Internet and how it works, explore theoretical concepts that make the world of Web development unique, and gain understanding of the ethical implications of website development. Additionally, students will examine various coding and problem-solving strategies.

GRAPHIC DESIGN - YEARBOOK I-III (1 credit)

Prerequisite: Sophomores, juniors, and seniors only, Final grade of 85+ in English, and approval of instructor through an application process

The purpose of this course is the creation and publication of the *Cardinal Yearbook*. The coursework includes basic business practices, journalism, photography, and design pertaining specifically to yearbook production. Students produce animated digital images through the single or combined use of computers, digital cameras, scanners, photo editing software, printers, new media, and emerging technologies. Through graphic design, photography, and journalism-style writing, students will create original layouts to produce the yearbook. As students move through the levels of the course, they may be appointed additional editorial responsibilities.