

NAZARETH

REGIONAL HIGH SCHOOL



COURSE CATALOGUE



2017-2018

Religion Department

Religion 9 (005)

One semester (.5 Credits)

Pre-requisite: None

By exploring the Old Testament and engaging in self-discovery discussions, students will develop a deeper sense of Christian identity. Issues of Christian faith and relevant personal and social issues will be examined through Old Testament stories and modern day readings.

Religion 10 (006)

One semester (.5 Credits)

Pre-requisite: Completion of Religion 9

The course will focus on the person of Jesus and His message in a way that relates to the lives of students. It explores the four gospels through both cultural and historical lenses. Students will see the application of Jesus' message to modern society and their own lives.

Religion 11 (007)

One semester (.5 Credits)

Pre-requisite: Completion of Religion 9 and 10

This course introduces students to the nature of morality in general and Christian morality specifically. It demonstrates the need for critical thinking and Christian values in making moral decisions and achieving human potential. Emphasis is placed on the role of the conscience.

Religion 12 (008)

One semester (.5 Credits)

Pre-requisite: Completion of Religion 9, 10 and 11 courses. Open to seniors only.

This course will help students apply the Church's message of Jesus to their daily lives. It will concentrate on their relationships with God as well as with each other.

English Department

English 9 (101)

Full year course (1 Credit)

Pre-requisites: None.

This course provides students with an introduction to crafting arguments and analyzing literature, including: fictional and nonfictional stories, dramas and poems. Students will increase their reading fluency and reading comprehension as they gear up for the rigorous reading they will do throughout their time in high school. Students will write for a variety of purposes and will learn to cite textual evidence as they analyze all forms of literature.

English 9 Honors (112)

Full year course (1 Credit)

Pre-requisite: 90 + grades in 8th grade ELA class

This honors freshman course offers an intensive introduction to literature and writing to strong incoming students. Students will be required to read more and write more as they get ready for the rigorous demands of AP and advanced sophomore courses.

English 10 (102)

Full year course (1 Credit)

Pre-requisites: English 9

This demanding course will focus on developing students' analytical skills, essay writing and reading comprehension. The course will be filled with constant writing and reading as students learn to construct arguments, find their own voice in their writing and evaluate the world around them through literature. Students are expected to work hard and consistently throughout the year. This course ends with students taking the English Language Arts Common Core Regents exam in June.

Advanced Literature (122)

Full year (1 Credit)

Pre-requisites: Departmental approval required.

This course is a vigorous and challenging course that is designed specifically to prepare students for the upcoming challenges of AP level courses. Throughout the year, students will critically discuss issues that are raised in their reading of the literature. Every unit will include at least two on demand writing assignments, one formal paper that is drafted and revised in class, reader responses, and contextual vocabulary work. Papers will be evaluated based on word choice, sentence structure, organization and, most importantly the power of the argument made by the student and the connection of evidence to the student's overall argument.

English 11 (103)

Full Year (1 Credit)

Pre-requisites: English 10

This course focuses on helping students further develop and refine the rhetorical strategies they use in order to create their own unique approaches to crafting written arguments. The course will also advance students' understanding of literature's impact on culture and society. Students will write criticisms, articles, short essays and fictional memoirs that analyze the role of culture; the media and sensationalism; gender and feminism; and social and economic issues in the lives of the characters they read about.

AP English Language (153)

Full Year (1.5 Credits)

Pre-requisites: Departmental recommendation and approval of the Assistant Principal of Academics required.

The class is designed to examine a wide range of rhetorical strategies and forms of argument in nonfiction. The course overview and objectives are taken from the AP English Course description published by the College Board. This course focuses primarily on how writers chose to convey their ideas. Unlike literature, where the goal is to understand why a writer wrote a short story, novel, etc., AP Language's goal is to seek out the strategies employed by each writer to create a coherent argument. We will not only identify these strategies, but also analyze them, and create our own unique works. All students will be required to take the AP English Language exam in May. There will be a separate charge for this exam.

College Composition (118)

One Semester (.5 Credit)

Pre-requisites: 3 Years of English. This is a one semester course that must be taken with Literature and Film.

Modeled after a college freshman writing course, this class acclimates students to high level research papers and similar writing assignments given at the university level. The goal of this course is to develop students' abilities to write critical analyses, literary responses and expository essays that can effectively communicate ideas to a mature audience. This course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 3 college credits for the student.

Literature and Film (154)

One Semester (.5 Credit)

Pre-requisites: 3 Years of English. This course must be taken with College Composition.

In this course, students will do close reading of major works of fiction that have been adapted to the big screen. The course work will focus on understanding how these two mediums are interconnected and analyzing their impact on the craft of storytelling. Students will examine the aspects of plot, character development, and theme in both mediums. The emphasis will be on critical and analytical thinking and writing.

Creative Writing (162)

One Semester (.5 Credit)

Pre-requisites: Must be a Junior or Senior.

The goal of this half-year elective course is to develop students' abilities to write expressive and descriptive texts that utilize personal experience and unique points of view. The class will be conducted as an advanced writing workshop, where students will share drafts in progress, engage in peer editing, and evaluate class reading materials and films as models for their own text building process. This class is offered for college credit in cooperation with the St. John's University College Advantage program and has the potential of earning 3 college credits for the student.

AP Literature (152)

Full Year (1.5 Credit)

Pre-requisites: Departmental recommendation and approval of the Assistant Principal of Academics required.

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. . All students will be required to take the AP English Language exam in May. There will be a separate charge for this exam.

Social Studies

Global History I (201)

Full Year (1 Credit)

Pre-requisite: None

This year long course in social studies will take students through the first half of the New York state mandated world history and geography curriculum. Students will explore the geography, history, politics, religion and economies of various cultures throughout the world, beginning with prehistory and the earliest civilizations up to the early 18th century. Major units will include: Geography and Early Civilizations of the World, Major World Religions and the First Empires, Ancient Greece and Rome, Early China and Japan, Early India and Africa, the Byzantine Era and the Muslim World, the Middle Ages, Early Latin America and the Age of Exploration, and the Renaissance, Reformation and Absolutism. Students will write document-based and thematic essays, and complete research projects. They will also be able to identify the location and main geographic features of each of the societies we study.

Global History II (202)

Full Year (1 Credit)

Pre-requisite: Completion of Global History I or Global I Honors

The second course in the two-year sequence in Global History will cover the Renaissance to the Modern World and focuses on political, social, economic, and cultural developments. Major units will include: the European Renaissance & Reformation, the Expansion of the Muslim World, the Age of Exploration, the Atlantic World, Absolute Monarchies in Europe, the Enlightenment & Revolutions of Europe, the Industrial revolution, the Age of democracy, the Age of imperialism, Global Transformations, the Great War – World War I, Revolutions and the Rise of Nationalism, Years of Crisis in Europe, World War II, restructuring the Post World War II World, New Nations of the World and the Struggles of Democracy. Students will learn to craft and support arguments and to analyze, compare and contrast multiple points of view. Students will also work on projects which they will present in class. The Global History Regents will be taken in June.

United States History and Government (203)

Full Year (1 Credit)

Pre-requisite: Completion of Global Studies I and II

The history of the United States is studied chronologically from pre-colonial times to the present. Students will study the following eras: American Beginnings to 1783; A New Nation (1781 to 1850), an era of growth (1781 to 1850), A Period of Growth and Disunion (1825 to 1877), Migration and Industrialization (1877 to 1917), Modern America Emerges (1890 to 1920), The 1920's and the Great Depression (1919 to 1940), World War II and Its Aftermath (1931 to 1960), Living with Great Turmoil (1854 to 1975) and the Passage to a New Century (1968 to the present). Throughout the year, students are assigned essays and research projects and present their work in class. The United History and Government Regents will be taken in June.

A.P. Human Geography (266)

Full Year (1.5 credits)

Pre-requisites: 90+ grades in 8th Grade ELA and Social Studies

AP Human Geography presents high school students with the curricular equivalent of an introductory college level course. Content is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. Historical information will guide analysis on the ways in which globalization, colonialism, and human-environment relationships have on places, regions, cultural landscapes, and patterns of interaction. Specific topics will include: problems of economic development, consequences of population growth, impact of technology, struggles over political power, inequalities of ethnic groups and women, agricultural land use, and the role of climate change and environmental use. Students are required to take the AP Human Geography Exam in May. There is an additional charge for this exam.

A.P. World History (258)

Full Year (1.5 credits)

Pre-requisites: Completion of Global History I or Global I Honors, department recommendation and approval of the Assistant Principal of Academics is required.

AP World History is a rigorous, full year course that explores the world's past. The course will revolve around the five themes of World History, as outlined by the College Board, across the world's continent: Geography, Culture, Political Science, Economics and Social Structures. It will emphasize reading, writing and reasoning while incorporating the "habits of the mind" and writing strategies described by the College Board. This course will give students the opportunity to examine the human story by using the same methods that are used in college and university classes. Students will go beyond the study of individual historical events (the who, what, where and when) and analyze their causes, effects, comparisons, and how they are related (the why, how, and what does it have to do with the bigger picture of history). AP World History is designed with college level expectations and will proceed with a student centered philosophy. A great deal of responsibility for learning, progress and achievement will be on the student. Students are required to take the AP World History exam in May. There is an additional charge for this exam.

A.P. United States History (256)

Full Year Course (1.5 credits)

Pre-requisites: Completion of two years of Global History, department recommendation and approval of the Assistant Principal of Academics is required.

AP US history is a challenging two semester college level course designed to survey American History from the Age of Exploration and Discovery to the present Themes will include discussions of American diversity, the development of a unique American identity, the evolution of American culture, demographic changes over the course of America's history, economic trends and transformations, environmental issues, the development of political institutions and the components of citizenship, social reform movements, the role of religion in the making of the United States and its impact in a multicultural society, the history of slavery and its legacies in this hemisphere, war and diplomacy, and finally the place of the United states in an increasingly global arena. Emphasis is placed on critical and evaluative thinking skills, essay writing and interpretation of primary and secondary source materials. Students are required to take the AP U.S. History Exam in May. There is an additional charge for this exam.

American Government (205)

One Semester (.5 Credit)

Pre-Requisite: Two years of Global History and one year of U.S. History. This course and must be taken together with Economics.

This course will introduce students to the foundations of American Government and the foundations of the constitution. Students will examine how the federal system operates and consider the roles of the executive, legislative and judicial branches. Students will analyze how events from the past affect the world we live in and become aware of the rights and obligations of American citizens today. Current events will be part of class discussions and assignments.

Economics (204)

One Semester (.5 Credit)

Pre-Requisite: Two years of Global History and one year of U.S. History. This course *must* be taken together with American Government.

The goal of the Economics course is to enhance the student's socio-economic development through the study of various topics relating to and affecting the United States economy on the local, national, and international levels. Students will take a close look at current economic issues. In addition, they will study supply and demand, the stock market, taxation; and fiscal policies, both national and local.

Street Law (254)

One Semester (.5 Credit)

Pre-Requisite: None

This one semester elective course provides practical understanding of law and the legal system, which will be useful to students in their everyday lives. Current events, research, and group discussions are used to promote awareness of current legal issues and controversies; examine attitudes towards lawyers, law enforcement officers and the legal system; and inform students of their rights and obligations as citizens.

Psychology (251)

One Semester (.5 Credit)

Pre-Requisite: Must be a Junior or Senior.

This is one semester elective course that provides an introduction to several of the major topics in psychology. These include the history of psychology, scientific methodology, consciousness, nature vs nurture, human development, sensation and perception, learning and memory, thinking and language, intelligence, motivation and work, emotion, stress and health, personality, social psychology, psychological disorders and therapy. This course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 3 college credits for the student.

Sociology (260)

One Semester (.5 Credit)

Pre-Requisite: Must be a Junior or Senior.

This one semester elective course focuses on the study of human groups and the influence of society and culture upon behavior. This course includes a variety of units beginning with an introductory unit examining the methods and materials available to sociologists including career opportunities in the field. Other units include culture, socialization, conformity, stereotyping and ethnicity, the family, education and religion as well as problems facing American society. Through class discussions, films, reading and study, students will evaluate the dynamics of social behavior and social institutions. In addition to assigned readings from the text, students will be required to read at least one outside novel, as well as supplementary articles and write a research paper This

course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 3 college credits for the student.

Math Department

Algebra (319)

Pre-requisites: None

Full Year (1 Credit)

This course follows the New York State curriculum for Common Core Algebra 1 and includes topics involving equations and inequalities, verbal problems, linear graphs, linear systems, functions, data representation, graphing, and polynomials/radicals. The course consists of 10 domain areas: 1) Quantities, 2) The Real Number System, 3) Seeing Structure in Expressions, 4) Arithmetic Polynomials and Rational Expressions, 5) Creating Equations, 6) Reasoning with Equations and Inequalities, 7) Interpreting Functions, 8) Building Functions, 9) Linear, Quadratic and Exponential Models, and 10) Interpreting Categorical and Quantitative Data. The Algebra Common Core Regents Exam will be taken in June.

Algebra Honors (330)

Pre-requisite: 90 + average in 8th grade math course

Full Year (1 Credit)

This course will follow the same curriculum as the general Algebra class. However, students will go more in depth in when studying certain topics. The Algebra Common Core Regents will be taken in June.

Geometry (320)

Pre-requisite: Completion of Algebra (course 319).

Full Year (1 Credit)

This course follows the New York State curriculum for Geometry Common Core and includes topics involving special angles, proofs, triangle congruence, geometric relationships, geometry of a circle, transformations, locus of points, and required constructions. The course consists of 6 domains areas: 1) Congruence, 2) Similarity, Right Triangles and Trigonometry, 3) Circles, 4) Expressing Geometric Properties with Equations, 5) Geometric Measurement and Dimensions, and 6) Modeling with Geometry. The Geometry Common Core Exam will be taken in June.

Geometry Honors (333)

Pre-requisite: Completion of Algebra or Algebra Honors, department recommendation and approval of the Assistant Principal of Academics

Full Year (1 Credit)

This course will follow the same curriculum as the general geometry class. However, students will work more independently and go more in depth when studying certain topics. Students will take the Geometry Common Core Regents in June.

Algebra 2 (334)

Pre-requisite: Completion of Geometry

Full Year (1 Credit)

This course follows the New York State curriculum for Algebra 2 Common Core. The following topics will be covered: Integers, Rational Numbers, Real Numbers and Radicals, Relations and Functions, Quadratic Functions and Complex Numbers, Sequences and Series, Exponential Functions, Logarithmic Functions, Trigonometric Functions, Graphs of Trigonometric Functions, Trigonometric Applications, Statistics and Probability, and the Binomial Theorem.

Algebra 2 Honors (335)

Full Year (1 Credit)

Pre-requisite: Completion of Geometry or Geometry Honors and approval of the Assistant Principal of Academics.

This is a fast paced course that is offered to the strongest math students. It will cover all topics studied in Algebra 2 Common Core. In addition, the Algebra 2 Common Core Regents will be taken in June. A graphic calculator is required for this course.

Pre-Calculus (317)

Full Year (1 Credit)

Pre-requisite: Completion of Algebra 2 and approval of the Assistant Principal of Academics.

This full year course will cover advanced algebra with an introduction to elementary calculus. Topics include: Functions and Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric Functions, Analytic Trigonometry, Systems of Equations and Inequalities, Matrices and Determinants, and Sequences, Series and Inductions. This course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 3 college credits for the student. A graphic calculator *is required for this course*.

Pre-calculus (326)

One Semester (.5 Credit)

Pre-requisite: Completion of Algebra 2 and approval of the Assistant Principal of Academics.

This is a one semester course that is offered to the strongest math students. All topics covered in the full year pre-calculus course will be studied, but at a faster pace. This course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 3 college credits for the student. A graphic calculator is required for this class.

Calculus (327)

One Semester (.5 Credit)

Pre-requisite: Completion of Pre-calculus and approval of the Assistant Principal of Academics.

This is a one semester course that is offered to the strongest math students. The following topics will be covered: Limits and Continuity, Derivative, Applications for Derivatives, Integration, Applications of Definite Integrals, and Transcendental Functions. This course is offered for college credit in cooperation with the St. John's University College Advantage Program and has the potential of earning 4 college credits for the student. A graphic calculator is required for this course

Statistics (332)

Full Year (1 Credit)

Pre-requisite: Completion of Algebra 2 and approval of the Assistant Principal of Academics.

This course is designed to develop the student's statistical literacy, particularly their ability to read and interpret graphs and statistical values. The course also prepares students for statistical research and applications of statistical concepts in future courses/fields. Topics include data types, data collection, data organization, statistical graphs (reading and creating), measures of central tendency and dispersion, Chebyshev's rule, z-score, correlation, linear regression, probability and the use of related technology. This course is offered in cooperation with the St. John's University College Advantage Program and has the potential of earning 6 college credits for the student.

Calculus II (331)

Full Year (1 Credit)

Prerequisite: Completion of Calculus and the approval of the Assistant Principal of Academics.

This is the second course in calculus intended for students who have already completed Calculus I successfully. Calculus II will introduce students to a variety of new techniques of integration, applications of integration, and to sequences and series. The history of the formation of calculus will be discussed and students will use clips from "The mathematical Universe" to visualize real life applications of math and science. Students should expect to make use of technology in this course. Graphic calculators are a must. Ipads will be supplied and students will get a school account for loading applications. This course is offered for college credit in cooperation with the St. John's University College Advantage Program. Students have the potential of earning 4 college credits if credit was taken for Calculus I.

Finance (805)

One Semester (.5 Credit)

Pre-requisite: None

This course is designed to teach students the ABC's of finance: A for accounts, B for budgeting, and C for credit. Students will embark upon a journey designed to help them successfully plan their financial futures. They will have the opportunity to work on assignments that will help them learn to manage money. They will also work on case studies and projects with the intention of creating and understanding the need for financial planning.

Science Department**Living Environment (401)**

Full Year (1 Credit)

Pre-requisites: None

This freshman year course introduces students to the study of science and the scientific method. It follows the New York State curriculum for Living Environment and includes topics such as Similarities and Differences Among Living Organisms, Homeostasis, Genetics, Reproduction, Evolution, Ecology, Human Impact on Ecosystems, and Scientific Inquiry. *Students will participate in laboratory activities, learn lab skills and complete lab reports as mandated by the NYS Board of Regents. Students will take the Living Environment Regents in June.*

Chemistry (402)

Full Year (1 Credit)

Pre-requisite: Completion of Algebra and Living Environment.

This course covers the structure and behavior of matter. It follows the New York State Curriculum for Chemistry. It begins with the study of the atom, elements and the periodic table. Additional topics include chemical bonding, moles & stoichiometry, the physical behavior of matter, kinetics & equilibrium, organic chemistry, oxidation & reduction, acids, bases & salts, nuclear chemistry, and thermodynamics. *Students will participate in laboratory activities so they obtain first-hand knowledge about chemical phenomena and complete lab reports as mandated by the NYS Board of Regents. Students will take the Chemistry regents in June.*

Chemistry Honors (421)

Full Year (1 Credit)

Pre-requisite: Completion of Algebra and Living Environment, departmental recommendation and approval of the Assistant Principal of Academics.

This course follows the same curriculum as in general Chemistry, however, students will go into greater depth as they explore the topics they study. In addition, students will participate in independent research and present their findings at the school science fair during the Spring semester. Students will take the Chemistry Regents in June.

Environmental Science (411)

Full Year (1 Credit)

Pre-requisite: Completion of Living Environment.

The environmental science course will enable students to learn the scientific principles, concepts and methodologies required to analyze environmental problems both natural and human-made, and to examine alternative solutions for resolving and/or preventing them. Topics include effects of acid rain, climate change, atmospheric pollution, alternative forms of energy, land and water use, species migration, glacial erosion, composting, and recycling. Students will participate in labs on a regular basis

Forensic Science (415)

Full Year (1 Credit)

Pre-requisite: Completion of one year of Living Environment.

Forensic science is the application of science knowledge to the practice of law. Specific topics to be studied include: trace evidence analysis, blood and biological fluid identification, DNA analysis, firearm/gunshot identification, fingerprint/footprint analysis, handwriting comparison, forensic psychiatry/psychology, and crime scene analysis. Lab work will be an important component of this class, as students will be given the opportunity to think and work as a forensic scientist.

Physics (403)

Full Year (1 Credit)

Pre-requisite: Completion of Chemistry or Chemistry Honors and Geometry or Honors Geometry.

This course follows the New York State curriculum for Physics. Topics include mechanics, energy, electricity & magnetism, waves, and modern physics. As the language of physics is mathematics, students will use math to problem solve and answer questions concerning various physical phenomena. *Students are required to participate in laboratory activities and complete lab reports as mandated by the NYS Board of Regents.* Students will take the Physics Regents in June.

Anatomy & Physiology (455)

Full Year (1 Credit)

Pre-requisite: Completion of two years of science.

The course covers topics dealing with the structure and function of the human body. Students will study all body systems in units built around Human Organization, Support, Movement & Protection, Integration & Coordination, Movement of the Body, and Reproduction & Development. A hands on approach, that includes lab work, projects and presentations, will be emphasized.

Introduction to College Chemistry (461)

Full Year (1 Credit)

Pre-requisite: Completion of Chemistry or Chemistry Honors.

This full year course is designed to provide a survey of physical chemistry and introduce students to organic chemistry. The goal of the class is to prepare students for college level work in the sciences. Quantitative reasoning skills will be developed and used, where appropriate, to enhance the understanding of scientific concepts. The medical and environmental applications of topics covered will be highlighted.

Advanced Biology (462)

Full Year (1 Credit)

Pre-requisite: Completion of two years of science.

This course is designed to offer students a solid foundation in introductory college-level biology. At the end of the course, students will have an awareness of the integration of other sciences in the study of biology, understand how the species to which we belong is similar to, yet different from, other species, and be knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives. The development of critical thinking skills and understanding of the process of inquiry are the most important parts of this course.

Language Department**Spanish I (501)**

Full Year (1 Credit)

Pre-requisite: None

This course is designed for students who have little or no previous experience in Spanish. The main objectives of this course are to help students begin to communicate in Spanish through the development of the four basic language skills: listening, speaking, reading and writing. This class will focus on aspects of everyday life in Spanish speaking nations such as family, music, food, sports, seasons, clothing and other customs. Students will participate in cultural events.

Spanish II (502)

Full Year (1 Credit)

Pre-requisites: Successful completion of Spanish I.

Spanish II builds upon the skills and cultural information acquired in Spanish I and introduces more advanced structures in grammar and usage. Students will be expected to read, write, listen and respond using the Spanish language. They will be able to ask questions and participate in conversations regarding school, childhood, daily routine, leisure activities and special occasions. Students will understand main ideas from simple texts, read aloud with appropriate intonation and pronunciation, and write familiar words and phrases in brief response to given situations.

Spanish III (503)

Full Year (1 Credit)

Pre-requisites: Successful completion of Spanish I and II.

In the third year course, students will be given opportunities to master Spanish at a more advanced level. They will study grammar and structures that are necessary in order to be understood when speaking and writing in the language. Students will engage in conversations with their classmates and teacher, listen to authentic audio material, watch videos, write letters and compositions, and read cultural articles and stories.

Spanish IV (514)

Full Year (1 Credit)

Pre-requisites: Successful completion of Spanish I, II, and III.

This is a challenging course. Students will build upon and expand their knowledge of Spanish vocabulary and grammar, as well as refine their understanding of cultures in the Spanish speaking world. Reading will be both intensive and extensive, encompassing all genres, including both newspapers and magazines. Readings will emphasize contemporary history and culture. Current TV programs, radio broadcasts and DVDs comprise the listening component of the course. Conversation will be based upon students' personal reactions to readings, TV programs, current events, etc. In addition, students will write essays that reflect their understanding and appreciation of different topics in Spanish. Students completing this course will be able to read, write, speak and understand Spanish at an advanced level.

Fine Arts Department**Music H (717)**

One Semester (.5 Credit)

Pre-requisite: none

This half year course will enable students to comprehend the basic elements of music and the value of music in human culture. Students will be expected to sight read and count/clap syncopated rhythms. All facets of music – listening, performance, cultural relevance, music notation and composition will be covered. At the end of the course, students will be given the option of continuing their study of music and becoming a part of the school band program.

Music II (727)

One Semester (.5 Credit)

Pre-requisite; Completion of Music I

This half year course enables interested students to continue their music educations. Students are expected to have prior knowledge in sight reading, counting/clapping, and playing syncopated rhythms. Students will continue to grow in all facets of music – listening, performance, cultural relevance, music notation and composition. Time management and organization are expected of students as all students will automatically be a part of the intermediate band and will be required to perform in Mass and concert settings at NRHS. Select students will be invited to audition for the school marching band, Students interested in exploring their vocal talents are encouraged to join the school Music Club.

Music III (728)

One Semester (.5 Credit)

Pre-requisite: Completion of Music II

This course will enable students to continue their music educations through further study of instrumental music. Students who take this class will further their knowledge of advanced rhythms and note patterns, perform musical phrases using complex note parameters, demonstrate an advanced understanding of wind and percussive instrumental pedagogy and demonstrate the elements of advanced ensemble presentation. Students will automatically be a part of the symphonic band and will be required to perform in Mass and concert settings at NRHS. Select students will be invited to audition for the school marching band.

Advanced Music (739)

One Semester (.5 Credit)

Pre-requisite: Completion of Music III

This Fall course will teach students to advance their level of music proficiency. Enrollment in this class will deem students members of the school band. Students will advance their sight reading skills and ability to play syncopated rhythms on their assigned instruments. Students will continue to grow in all facets of music – listening, sight reading, performance, cultural relevance, instrumental performance, and music notation.

Advanced Music (740)

One Semester (.5 Credit)

This course is a continuation of Music 739. Students will further study advanced rhythms and note patterns; perform musical phrases using complex note parameters; cooperate with other students in order to reach goals given by the instructor; review and identify music's role in society and human culture; demonstrate an advanced understanding of wind and percussive instrumental pedagogy; and demonstrate the elements of advanced ensemble presentation.

Dance Band (731)

One Semester (.5 Credit)

Pre-requisite: None

Students will learn the fundamentals and components of being a part of a marching band/dance line. They will also learn dance techniques, various dance types and the culture & history of marching bands/dance lines. Students will gain knowledge of the marching band world at Historically Black Colleges and Universities. They will engage in school related performances and will also develop performance, leadership, motivational and team building skills.

Dance II (732)

One Semester (.5 Credit)

Pre-requisite: Completion of Dance Band

This one semester course will enable students to further continue their dance educations. Students will further their study of dance techniques and dance types as well as learn about the culture and history of the dance world. Students will continue to participate in school related dance performances

Advanced Dance (736)

One Semester (.5 Credit)

Pre-requisite: Completion of Dance III

In this advanced dance class, students will further their study of dance techniques and begin to choreograph their own performances. This class is for students who are serious about dance, want to learn more and are willing to take risks and work hard. Students will study the history and culture of dance which will aid them in becoming fully knowledgeable about dance. They will continue to engage in school related performances.

Advanced Dance (737)

One Semester (.5 Credit)

Pre-requisite: Completion of Dance 737

In this advanced dance class, students will continue to learn the fundamentals and components of being a part of a dance class/dance department. Students will also to continue to learn techniques used in dance, various dance styles, and the culture and history of the dance world. All material covered will aid students in being fully knowledgeable of dance and being engaged in school related performances.

Technology

Code Java (828)

One Semester (.5 Credit)

Pre-requisites: None

This Code HS introduction to computer science class teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students have completed the Code HS Introduction to Computer Science course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript.

AP Computer Science Principles

Full Year (1.5 Credits)

Pre-requisites: Completion of Code Java, departmental recommendation and permission of the Assistant Principal of Academics.

In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize and draw conclusions from trends. This course is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students will design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists and engineers use when utilizing computer software to bring ideas to life. Students are required to take the AP Computer Science Principles Exam in May. There is an additional charge for this exam.

Physical Education

Health (901)

One Semester (.5 Credit)

Pre-requisite: None

This course is a state requirement and follows the New York State curriculum. The five areas of concentration are physical health, sociological health problems, mental health, environment and community health and education for survival. A wide variety of topics are introduced, including nutrition wellness, disease prevention and control, alcohol and drug education, personality development, sexuality & family life education, first aid & AIDS, and CPR techniques.

Co-ed Physical Education (905)

One Semester (.5 Credit)

Pre-requisite: All students must participate in gym every year.

The physical education program aims at the development, appreciation and recognition of physical fitness for a healthy life. Through instruction in exercise, games and other athletic activities, the Physical education department enhances the physical development and growth of each student. The department is sensitive to student needs and will create a variety of activities within each class. In every class safety and sportsmanship is stressed. Course topics include: physical fitness testing, flag football, volleyball, badminton, team handball, soccer, basketball, double dutch and sacketball.

Group Health (907)

One Semester (.5 Credit)

Pre-requisites: None

This course is a special program that builds self-esteem while addressing issues of concern to today's teens. Students are assigned to small groups for this one semester course and confidentiality is necessary for group trust.

Weights (908)

One Semester (.5 Credit)

Pre-requisites: Must be a sophomore, junior or senior.

This weightlifting class is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training. Students will understand the importance of setting goals for personal improvement and achievement, and will leave the class with a lifelong understanding of how to maintain adequate physical fitness for a healthy lifestyle. All students will be provided with necessary training on specific exercises so that the exercise process can be safe and productive. Students will be encouraged to remain positive with themselves, as well as with other students in order to maintain a good training atmosphere. It is important that everyone begins this course and progresses through this course at his/her own rate, as they reach their individual goals. Safety is always given the first priority.

Online College Classes**Introduction to Engineering (860)**

One Semester (.5 Credit)

This course will introduce students to the profession of engineering. It will focus on the engineering design process; working in engineering teams; engineering models, written and oral technical communication skills. This course is offered for credit and has the potential of earning 2 college credits from, Arizona State University, for the student.

Human Origins (464)

One Semester (.5 credit)

This course will guide students through an exploration of the scientific evidence supporting the evolution of humans. It includes an introduction to evolutionary theory and an overview of human fossil records. Students will study the role of paleoanthropologists in human origins research, identify how paleoanthropologists use scientific method to formulate hypotheses and conduct research, and articulate differences between scientific evidence for human evolution and non-scientific, non-testable explanations for human origins. This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Health and Wellness (915)

One Semester (.5 credit)

This course focuses on the latest trends in health, nutrition, physical activity and wellness. From stress management and sleep to overall wellbeing, the course will explore personal health, health related attitudes and beliefs, and individual health behaviors. This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Introduction to Solar System Astronomy (463)

One Semester (.5 credit)

This introductory lecture and laboratory course will explore the origins, structure, contents and evolution of the solar system and exosolar planetary systems. The course will cover the history of astronomy, properties of light, instruments, and the study of the solar system and nearby stars. This course is offered for credit and has the potential of earning 4 college credits from, Arizona State University, for the student.

Technological, Social and Sustainable Systems (861)

One Semester (.5 credit)

This course focuses on the impact technology has on sustainability and society. Using relevant historical examples and current issues in the news, students will study cultural, environmental and economic frameworks within which ideas such as sustainability and different technologies are understood and evolve. Students will explore emerging technologies from the industrial revolution

through the present day, and into a future that will be complex and challenging, and may look like science fiction. This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Western Civilization: Ancient and Medieval Europe (264) One Semester (.5 credit)

This course will provide a general outline of European history from Ancient times through 1500 AD, covering a variety of European historical periods and cultures, including Greek, Roman, Byzantine, Celtic, Frankish and others. Students will evaluate the evolution of political systems and their contributions to western society, examine the changing role of religion in European society and explore the changing relations between Ancient and Medieval Europe and the world beyond. This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Macroeconomic Principles (262) One Semester (.5 credit)

The macroeconomy is the sum of all our productive efforts, spending and income. Economic outcomes are the result of our complex interactions with other people, businesses, the government as well as with people and businesses globally. In this economics course, students will learn the basic framework that economists use to think about, account for, measure and explain these complex interactions and outcomes. Topics include economic decision making, labor market policies and unemployment, R & D and innovation policies, fiscal policies and taxation, monetary policy and inflation and free-trade policies. This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Microeconomic Principles (261) One Semester (.5 credit)

This course introduces microeconomic concepts and analysis. Topics include supply and demand analysis, theories of exchange and production, including the theory of the firm and individual behavior, competition and monopoly, and welfare economics. . This course is offered for credit and has the potential of earning 3 college credits from, Arizona State University, for the student.

Additional Classes

Driver's Education (601) One Semester (.25 Credit)

Pre-requisites: Must be 16 years of age.

State approved course combines lecture with behind-the-wheel experience. Successful students will be awarded the completion certification required by New York State.

Resource Room (634) One Semester (.5 Credit)

Pre-requisites: Students must be have an IESP and be eligible for SETSS services.

Students are worked with individually according to their unique needs. All students are helped to improve their study skills, test taking skills, organization and focus. Test accommodations are provided to eligible students. Limit: 5 students per class.