



Course Sequencing Here at Northside

What Classes Should I Take?

Through your enrollment at Northside Charter High School, we offer numerous courses which may enable a student to receive their high school diploma while also accruing college credit, and here... there is no tuition fee charged! Below you will find the course offerings for the 2022-23 School Year and the planned progression of courses for students during their tenure as a Knight!

English Language Arts

Social Studies

9th Grade

ELA 9

This is an introductory English Language Arts course that focuses on reading, writing, & critical thinking. Students will participate in a variety of class activities that help build independence and proficiency in reading at grade level and developing analytical skills. Persuasive writing and literary analysis are a focus of this course. Students will read a variety of literary and non-fiction texts.

Global History & Geography I

This is an introductory world history survey course, covering history from the Paleolithic Era, through the Roman Empire, past the Dark Ages, and to the Age of Discovery. This course emphasizes the unifying themes, social studies skills, and key conceptual understandings as described in the New York State Social Studies Framework.

10th Grade

ELA 10

This is an intermediate course which expands on the skills developed in ELA 9. In terms of skills, students will be prepared to achieve Mastery on the NYS ELA Regents exam, including the ability to glean and use information from nonfiction materials.



ELA 10 Honors/Pre-AP

This is an advanced study of the skills students developed in ELA 9. Additionally, students in this course will develop abilities in research, collaboration, and communication that will help in any academic discipline.



Global History & Geography II

This is an introductory world history survey course, covering history from the Scientific Revolution, through the Age of Imperialism, past the Decolonization Era, and to the Modern Day. Students will be prepared to achieve Mastery on the NYS Global History & Geography II Regents exam.



11th Grade

ELA 11

This is an intermediate course which offers students the opportunity to comprehend, analyze, evaluate, and communicate complex information. Emphasis in this course is placed on composition



AP Language & Composition

This is a challenging College Level ELA course that offers Juniors the chance to advance their study of English. It is a course for those who might benefit from the AP Examination in English offered by the College Entrance Examination Board.



U.S. History and Government

Grade 11 begins with the colonial and constitutional foundations of the United States and explores the government structure and functions written in the Constitution. Students will be prepared to achieve Mastery on the NYS U.S. History and Government Regents exam



AP U.S. History

This is a challenging College Level American History survey course with a focus on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present. This course is for those who might benefit from the AP Examination in History offered by the College Entrance Examination Board.



12th Grade

ELA 12

This is an advanced ELA course that is designed to support the development of strategic reading and writing skills. This course uses a contemporary approach, including exploration of high-interest topics and analysis of real world texts,



AP Literature & Composition

This is a challenging College Level ELA course that seeks to intensely develop a student's ability to critique Literature. Students will read the works of recognized authors and become familiar with the terminology of literary criticism.



Participating in Government

This is an advanced semester-long survey of American Government and how to become an active member in its systems.



Economics

This semester-long course is designed to be a culminating study focusing on the free enterprise system, and finance. The fundamental economic concepts of scarcity, productivity, supply and demand, and global interdependence will be examined.



AP Government


This is a challenging year-long College Level survey of American Government and understanding the systems that comprise it.

Mathematics


Science

9th Grade

Algebra I


This is an introductory Algebra course that focuses on giving students a foundation for all future mathematics courses. Students will explore the foundations of Algebra, solving equations, solving inequalities, an introduction to functions, linear functions, systems of equations, exponential functions, polynomials, quadratic functions, and probability. Students will be prepared to achieve Mastery on the NYS Algebra I Regents exam. 

Living Environment


This is an introductory course in Living Environment, covering an in-depth study of life, structure and function as well as the relationships and interactions of a variety of organisms. The concept of interdependence of all life on Earth is interwoven throughout the curriculum, which includes units on ecology, evolution, genetics, reproduction and development, homeostasis, and ecology. Students will be prepared to achieve Mastery on the NYS Living Environment Regents exam. 

10th Grade

Advanced Algebra


This is an introductory Algebra course that focuses on reviewing the fundamentals of Mathematics as well as; solving equations, solving inequalities, an deep dive into functions and polynomials. Students will prepare to retake the NYS Algebra I Regents exam 

Geometry

This is an introductory Geometry course that will cover Shapes, Coordinate Geometry, Constructions, Locus, Informal Proofs, Number Sense, Measurement & Geometric Relationships. Students will be prepared to achieve Mastery on the NYS Geometry Regents exam. 


OR

Earth Science


This is an introductory course in Earth Science, covering astronomy, the earth's origin, structure, composition, surface features, and atmosphere. The curriculum is based on the Physical Setting/Earth Science Core Curriculum of New York State, which aims to develop an understanding of certain processes basic to Earth Science by means of student investigations. Students will be prepared to achieve Mastery on the NYS Earth Science Regents exam. 

11th Grade

Advanced Geometry


This is an introductory Geometry course that focuses on reviewing the fundamentals of Geometry. Students will prepare to retake the NYS Geometry Regents exam 

Algebra II


This is an intermediate Algebra course that will cover Polynomials, Rational Numbers, Radicals, Relations, Quadratic Functions, Complex numbers, and Logarithmic Functions. 

OR

Forensic Science

This is an introductory Physical Science course that is a natural extension of all students' science education, with an emphasis on real life applications. 


Chemistry

This is an introductory Chemistry course that will cover energy, atomic structure, bonding, and the Periodic Table. Students will prepare to take the NYS Chemistry Regents exam 


Advanced Math & Computer Science

This is an introductory mathematics course that will cover the basics of computer science. This course serves as a foundation for computational problem solving, and as a solid base and stepping stone to those students who wish to explore Computer Science. **Requires Instructor Approval for Enrollment.**

Environmental Science


This is an intermediate Natural Science course that focuses on the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. 

AP Environmental Science


This is a challenging college-level Natural Science course. This is a course for students interested in the AP Examination in Science offered by the College Entrance Examination Board. 

12th Grade

Statistics & Probability


This is an advanced Algebra course that will dive deeper into topics discussed in *Advanced Functions*. Students will be prepared for and given the option to take the NYS Algebra II Regents exam. 

AP Precalculus


This is a challenging college-level Algebra course. This is a course for students interested in the AP Examination in Mathematics offered by the College Entrance Examination Board. 

OR


Human Diseases

This is an introductory Biological Science course that is a natural extension of all students' science education, with an emphasis on biological effects of bacteria and viruses. 


Chemistry

This is an introductory Chemistry course that will cover energy, atomic structure, bonding, and the Periodic Table. Students will prepare to take the NYS Chemistry Regents exam 

Environmental Science

This is an intermediate Natural Science course that focuses on the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. 

AP Environmental Science

This is a challenging college-level Natural Science course. This is a course for students interested in the AP Examination in Science offered by the College Entrance Examination Board. 

St. Francis College Algebra & Trigonometry

This is a challenging college mathematics course accredited through St. Francis College. This course will encompass first degree equations, ratios rates, percentages and proportions. Additional topics include linear systems of equations-Gaussian elimination.

Physical Education

A.V.I.D.

9th Grade

Physical Education I

This course is designed to assist students in discovering the value and benefits of physical activity and in promoting health and wellness. They will learn the benefits of building the five components of health-related fitness and the principles that will help them build fitness properly. In addition, they learn the principles of the FIT (frequency, intensity and time) formula to determine how much exercise is enough. Students will also learn what types of activities are best for maximizing health and wellness benefits while planning a personal fitness program.



A.V.I.D. I

AVID I (Advancement Via Individual Determination) is a semester-long course that prepares students for their first year at Northside Charter High School. There is an emphasis on note-taking, preparation for high school level exams, study skills, and research.



Health

This semester-long course is designed to meet the NYS graduation requirement as well as provide health knowledge and skills to promote health-enhancing behaviors in order to reduce health risks. The course addresses health issues facing society today.



10th Grade

Physical Education II

This course is designed to assist students in discovering the value and benefits of physical activity and in promoting health and wellness. They will learn the benefits of building the five components of health-related fitness and the principles that will help them build fitness properly. In addition, they learn the principles of the FIT (frequency, intensity and time) formula to determine how much exercise is enough. Students will also learn what types of activities are best for maximizing health and wellness benefits while planning a personal fitness program.



A.V.I.D. II

AVID II is a semester-long course that hones the skills that students developed during their time in AVID I. There is an emphasis on effective study habits, the development of a safe space, learning about the working world, and research on college-job relationships.



Personal Finance

This semester-long course is focused on teaching students how to manage their bank accounts, maintain good credit and even how to make their money work for them.

This course is only available for sophomores who have completed "Health" with instructor approval.

11th Grade

Physical Education III

This course is designed to assist students in discovering the value and benefits of physical activity and in promoting health and wellness. They will learn the benefits of building the five components of health-related fitness and the principles that will help them build fitness properly. In addition, they learn the principles of the FIT (frequency, intensity and time) formula to determine how much exercise is enough. Students will also learn what types of activities are best for maximizing health and wellness benefits while planning a personal fitness program.



S.A.T. Prep

S.A.T. Prep is a semester-long course that concentrates on SAT reading, vocabulary and writing skills along with math practice. The course includes practice in taking the SAT test, as well as strategies for the question types (sentence completion, vocabulary, critical reading, and writing – finding errors / revision).



A.V.I.D. III

AVID III is a semester-long course that prepares students for college readiness and success. This course follows a rigorous college preparatory curriculum with an emphasis on tutor-facilitated study groups, motivational activities and academic success skills. AVID III also serves as a companion to S.A.T. Prep, developing the skills students have been working on.

12th Grade

Physical Education IV

This course is designed to assist students in discovering the value and benefits of physical activity and in promoting health and wellness. They will learn the benefits of building the five components of health-related fitness and the principles that will help them build fitness properly. In addition, they learn the principles of the FIT (frequency, intensity and time) formula to determine how much exercise is enough. Students will also learn what types of activities are best for maximizing health and wellness benefits while planning a personal fitness program.



A.V.I.D. IV

AVID IV is a semester-long course works on making sure students are prepared for graduation and entering the collegiate world. There is an emphasis on effective financial aid, personal responsibility, and college life-styles. All while serving as the hub for Senior Life at Northside Charter High School!



Know Your Rights

K.Y.R. is an overview of common legal issues and questions. Students will learn about legal implications in everyday transactions, borrowing items from your neighbors, losing your luggage on a flight, and finding a lost wallet. Students will also spend time on ethical issues and conducting research on actual court cases that impact our everyday lives.

Electives

9th Grade

Spanish I

Spanish I is a year-long language course that focuses on employing extensive speaking activity, where the student is placed into real life situations using the Spanish language. With the aid of authentic materials, the student will simulate everyday life in a Spanish environment through role-playing, dramatizations, and other speaking exercises.

Students with prior proficiencies in Spanish will be given the opportunity to take a higher level Spanish Course with Instructor Approval. All 9th Grade Students are required to take a Spanish Language Course to meet NYS Graduation requirements.



Spanish II

Spanish II focuses on preparing students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking and writing) information on concrete topics. This course will also introduce the perspectives of Spanish-speaking cultures

Theater I

This course is designed to promote enjoyment and appreciation for all aspects of theatre. Classwork will focus on the exploration of theatre performance and technical requirements. Improvisation, creative dramatics, and beginning scene work are used to introduce students to acting and character development.

Available to 10th, 11th, & 12th graders who have fulfilled their foreign language requirement.

Dance I

Dance I is a class that will teach students the fundamental techniques and vocabulary in many styles of dance. Emphasis will be placed on technique, movement skills, knowledge, history, and aesthetics of each dance style, while also learning components of fitness

Available to 10th, 11th, & 12th graders who have fulfilled their foreign language requirement.

Music I

Students will develop skills in critical listening and elements of music theory via electronic keyboards. A rich history of music is a primary focus, along with discussion and analysis of current music and industry trends. The essential aspects of melody, harmony, rhythm, and form are studied.

Available to 10th, 11th, & 12th graders who have fulfilled their foreign language requirement.

Spanish III

This course will have students be expected to demonstrate comprehension of lengthy auditory and reading passages. Students will also engage in creative and guided composition. All aspects of the course will center on real life situations, with utilization of authentic materials such as Spanish newspapers, magazines, films and video programs

Theater II

This course is designed to promote enjoyment and appreciation for all aspects of theatre through building significantly on existing skills. Classwork focuses on improvisation, creative dramatics, and scene work which are used to help students challenge and strengthen their acting skills and explore the technical aspect of scene work.

Dance II

The class progresses as an extension from Dance I. This course begins with the demarcation of various dance styles: ballet, modern, jazz, Afro, lyric, musical comedy, and hip-hop. Turns, hops, jumps, and leaps are introduced at this level. The focus of Dance II will be the complexity of combinations with further emphasis on technique and style.

Music II

The goal of this course is to develop a student's ability to recognize, understand and describe the basic materials and processes of music. Students will be required to read, notate, and perform music. Musical skills will be developed through listening exercises, written exercises, analysis, and an exposure to a variety of musical styles.

Spanish Language & Culture

This course is an advanced study of the similarities and differences in values, attitudes and actions of different Spanish speaking cultures. Students will investigate these different cultures through a wide variety of resources (e.g., online resources, texts, videos). Students will also investigate specific topics related to cultural experiences (e.g., ecotourism in Costa Rica, indigenous cultures in Guatemala).



AP Spanish Language

This course is an advanced college-level language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.



St. Francis Spanish III

This is an advanced college course in which students will showcase their control of elementary audio-lingual skills and their further develop reading skills. The course is designed with an in-depth study of Spanish grammar with emphasis on reading. Vocabulary and critical thinking are developed through literary and cultural readings and put into practice in class discussions and compositions.

Additional Electives

AP Seminar

AP Seminar is an interdisciplinary course that encourages students to demonstrate critical thinking, collaboration, and academic research skills on topics of the student's choosing! Students will develop and practice these skills that can be used in any academic discipline. Students will investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

Requires ELA 10/11 Instructor recommendation to enroll as well as AP Seminar Instructor permission. Students who take and pass AP Seminar may enroll in AP Research the following year.



AP Research

AP Research is the second course in the AP Capstone experience. This course allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Students who take and pass AP Research may be eligible for the AP Capstone Certificate as well as the AP Capstone Diploma. Extra Information regarding these course can be found later in this document.