

NORTHSIDE

BIOMEDICAL & ENGINEERING MAGNET



UNLOCKING POTENTIAL, CHANGING THE WORLD



Why Northside?

To love Northside, you must first experience Northside, and once you do, it is in your blood forever.

You see, when you make a decision to become a Northside Patriot, you enter into our family where the atmosphere and climate is second to none.

Northside strives to accomplish two very important goals: We want to make you feel safe, offering the best environment possible, and we want to challenge you to become college and career ready. These two very important aspects go hand in hand in becoming a well-rounded student.



Research states that 90% of success on a job has nothing to do with how much you know about the subject, it has everything to do with how you connect with others, form strong relationships, and resolve conflict. Northside encourages participation in Advanced Placement and Honors courses in addition to activities, organizations, clubs, fine arts, academic, and athletic team memberships to round out a quality high school education.



Our students will leave Northside with a sense of accomplishment and pride in their education; they will exit with confidence, knowing they are prepared to meet any obstacles they may face as adults.

OH PATRIOTS, OH PATRIOTS



Liberal Arts and so much more...

Each high school in Muscogee County offers a liberal arts education.

This is an education consisting of required courses for graduation in the state of Georgia and also additional Advanced Placement courses or electives a student may choose to enhance their education. The difference lies in the additional magnet courses each high school may offer.

Northside High School offers two different magnet course options: Biotechnology and Engineering. These classes are introduced during the students' sophomore year and gives them the opportunity to see if they want to pursue this field after graduation.



Scholarship Money: over 7 million annually

Enrollment: 1535

Magnet Class Size: 24 students

Currently, we offer the dual enrollment program with local colleges, however magnet students must fulfill their magnet requirement and attend Northside to complete their magnet pathway.

WE STAND TALL AND PROUD

Biotechnology

Students will explore the concepts of human medicine and be introduced to topics such as physiology, genetics, microbiology, and public health. They will follow a three year sequence of classes beginning in their sophomore year in small group settings of fewer than 24 students.



INTRODUCTION TO HEALTHCARE SCIENCE

Introductory Class/10th grade

This course enables students to receive initial exposure to many Healthcare Science careers. The concepts of human growth and development, interaction with patients and family members, health, wellness, and preventative care are evaluated, as well as the legal, ethical responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including microbiology, basic life support, and first aid. This course provides students with the competitive edge to be the better candidate for entry into the healthcare marketplace and/or the post-secondary institution of their choice to continue their education and training.





ESSENTIALS OF BIOTECHNOLOGY

2nd class/11th grade

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments and investigate the structures and functions of the human body. This class will also introduce students to a broad understanding of the fundamentals of biotechnology and its impact on society.

The knowledge and skills in this course provide a basic overview of current trends and careers in biotechnology, with an emphasis on laboratory skills.

APPLICATIONS OF BIOTECHNOLOGY

3rd class/12th grade

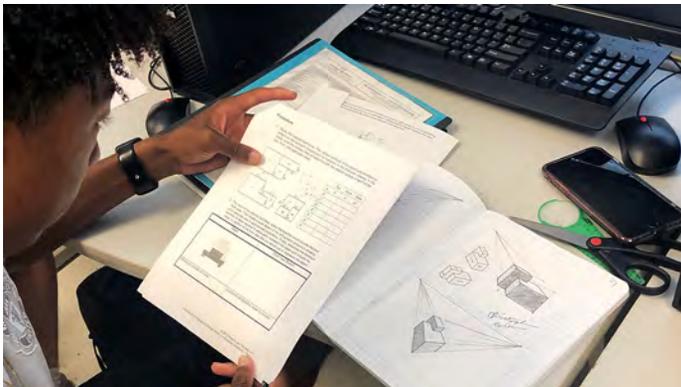
Students are further introduced to the fundamentals of biotechnology that will expand and increase the student's comprehension of how biotechnology utilizes living systems to create products and enhance lives. In addition, laboratory applications learned in this course form the pivotal component distinguishing science theory from application in bioscience.





Engineering

This is more than just another high school engineering class. It is about applying engineering, science, math and technology through a project-based, hands-on approach to solve complex, open ended problems in a real world context. Students focus on the process of defining and solving a problem, not only getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.



FOUNDATIONS OF ENGINEERING/TECHNOLOGY

Introductory Class/10th grade

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Students are able to participate in a variety of career-focused activities, leadership opportunities, and recognition in competitive events such as Skills USA and the Technology Student Association.

OH, PATRIOTS THERE'S NONE LIKE US



ENGINEERING CONCEPTS

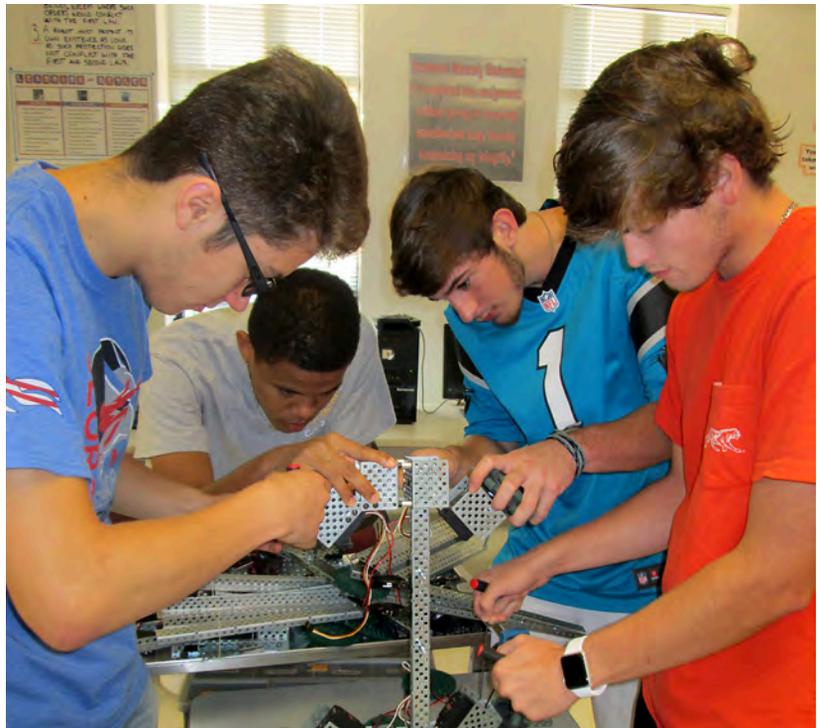
2nd class/11th grade

Students dig deeply into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems that will benefit from using 3-D modeling software. Students will get individual time with instructors to increase their knowledge in a small group setting of less than 20 students.

ENGINEERING APPLICATIONS

3rd class/12th grade

Students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.



WE'LL RISE COME WHAT MAY.



Magnet and Course Sequence

Slots are limited to 100 students and acceptance is extremely competitive. We are looking for students who excel in all academic areas, specifically in math and science, and once accepted we expect academic excellence. Students will be challenged with the following courses during their four years as a Patriot.

FRESHMEN

9th grade LIT/Comp or
Honors 9th Grade LIT/Comp
GSE Algebra I or
GSE Accelerated Algebra I/Geometry A
Honors Physical Science or
Honors Biology
American Government or
Honors American Government
Foreign Language
Personal Fitness/Health
Electives

JUNIORS

American LIT or
AP Language/Comp
GSE Algebra II or
GSE Accelerated Pre-Calculus
Honors Chemistry or AP Chemistry
AP Biology or AP Environmental Science
US History or AP US History
Engineering or
Biomedical Class
Electives

SOPHOMORES

10th grade LIT/Comp or
Honors American LIT
GSE Geometry or GSE Accelerated
Geometry AB/Algebra II
Honors Biology or Honors Chemistry
World History or AP World History
Foreign Language
Engineering or Biomedical Class
Electives

SENIORS

Multicultural LIT or AP LIT/Comp
GSE Pre-Calculus or AP Statistics or
AP Calculus AB or BC
AP Chemistry, AP Biology, AP Physics,
AP Environmental Science
or Science Elective
Economics or
AP Economics
Engineering or Biomedical Class
Electives

SUCCEED IN EVERYTHING WE DO



Advanced Placement

Northside High School offers a wide range of AP classes to challenge students and provide them with the opportunity to earn college credit while still in high school. The rigor of these AP courses will help to prepare students to rise to the demands and expectations in college.



ART HISTORY - BIOLOGY - CALCULUS AB - CALCULUS BC - CHEMISTRY - ENGLISH LANGUAGE - ENGLISH LITERATURE - ENVIRONMENTAL SCIENCE - HUMAN GEOGRAPHY - MACROECONOMICS - MUSIC THEORY - PHYSICS - PSYCHOLOGY - SPANISH - STATISTICS - STUDIO ART - US GOVERNMENT/POLITICS - US HISTORY - WORLD HISTORY

Volunteering

We give our students the flexibility to volunteer throughout the community where they have an interest to learn and build connections in the Columbus area. Students are required to perform a minimum of 25 hours for each year they are involved in the magnet program.



CONQUERING EACH DAY



Whose Side...?

Northside has enjoyed a rich tradition of athletic excellence in a short period of time. We require students to exhibit character and sportsmanship throughout the competitions and to leave the playing field with a sense of accomplishment, win or lose. We believe that if you are not a champion off the field what you do on the field is insignificant. These traits will carry our students through their adult life and ensure future success.



Girls' Cross Country - Region Champs 2011, 2012, 2013

Boys' Cross Country - Region Champs 2015, 2018; Elite 8 2018

Volleyball - Region Champs 2019; Area Champs 2017; Elite Eight 2012, 2014, 2016, 2017, 2018, 2019

Girls' Basketball - Region Champs 2009, 2014; Elite Eight 2010

Boys' Basketball - Region Champs 2009, 2013, 2014; Elite Eight 2009; Final Four 2013

Boys' Tennis - Region 2011; Elite Eight 2010, 2011, 2018 **Girls' Tennis** - Elite Eight 2018

Boys' Golf - Region Champs 2011, 2012, 2013, 2014

Girls' Golf - Region Champs 2014, 2015



NORTHSIDE HIGH, NORTHSIDE HIGH



...Northside!

Our goal at Northside High School is to create an environment where student athletes prepare and compete at a very high level. We ask our student athletes to work and play hard.



Boys' Soccer - Elite Eight 2004, 2006, 2007 **Girls' Soccer** - Region Champs 2018; Elite Eight 2018

Girls' Track - Region Champs 2012, 2013, 2014

Boys' Track - Region Champs 2016, 2017; State 4th pl 2013, 7th pl 2017, 6th pl 2017

Cheerleading - Region Champs 2007, 2010, 2011, 2012, 2014, 2015, 2018;

Elite Eight 2006, 2012, 2015; State 4th pl 2007, 2008, 2010; State 3rd pl 2011

Rifle - State Champs 2005, 2006, 2007, 2015

State Runner Up - 2008, 2010, 2016; State 4th pl 2009, 2013; 5th pl 2012;

7th pl 2014; 9th pl 2017, 2019

Area Champs 2006, 2007, 2008, 2009, 2010, 2012, 2015, 2016

Wrestling - Area Champs 2005, Elite Eight 2005; State 11th pl 2018

Baseball - State Champs 2019; Region Champs 2016, 2018

Softball - State Champs 2017; State Runner up - 2009, 2016, 2018; Elite Eight - 2007, 2008, 2009, 2015, 2016, 2017, 2018, 2019 Region Champs - 2008, 2015, 2016, 2017, 2018, 2019

RED, WHITE AND BLUE



Clubs and Extra Curricular Organizations

There are a wide range of reasons to get involved with clubs and organizations. You can learn how to work as a team, develop leadership skills, learn how to engage with a diverse group of people, and it strengthens your resume.



Fine Arts Programs

National Art Honor Society
Band - Marching, Jazz, and Ensemble
Chorus - Northside Singers
Drama - International Thespian Society

Academic Decathlon - Art Club
Broadcast Team
Chick-fil-A Leadership Academy
Class Council - Chess Club - Creative Writing
Debate Club - Drama Club - Earth Club
Literary Magazine
Fellowship of Christian Athletes - Book Club
Mu Alpha Theta - Math Team
Math Honor Society - Mock Trial
National Honor Society - Newspaper
National Honor Technical Society
Prayer Club - SADD - Peer Helpers
Science Olympiad - Spanish Club
Skills USA - Teen Advisors
Technology Student Association - Yearbook



DECA HOSA FCCLA FBLA ROTC



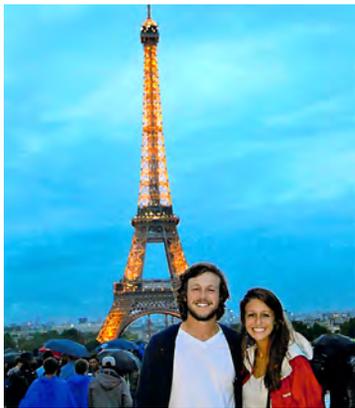
WE ARE THE BEST ABOVE THE REST



PATRIOTS GO ABROAD...



Many students are exposed to world cultures in the classroom, but rarely do they get the opportunity to experience these first hand. Patriots have the opportunity to travel abroad on teacher sponsored trips to live a dream experience! Northside students have traveled to Spain, Italy, Greece, London, Paris, Costa Rica, Switzerland, Germany, and Scotland in the past few years.



WE PLEDGE OUR HEARTS TO YOU



Freshmen Admissions

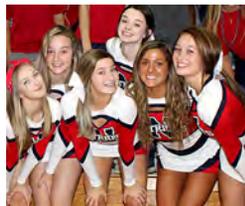
The biotechnology and engineering magnet programs follow a proven hands-on, real world problem-solving approach to learning. Students explore the concepts of human medicine or apply the engineering design process throughout their chosen path.

The application process begins in the fall and the link can be found on our website, <http://sites.Muscogee.k12.ga.us/northside/>

This is a very competitive process where students from across the district are competing for only 100 slots per grade level.

There is not an admissions test; instead students are selected from a variety of factors. The admissions committee will make determinations based on the rigor of students' eighth grade courses, current grades, standardized test scores, (specifically in math and science), teacher recommendations and a student generated essay.

DO YOU HAVE WHAT IT TAKES TO BE A PATRIOT?



NORTHSIDE

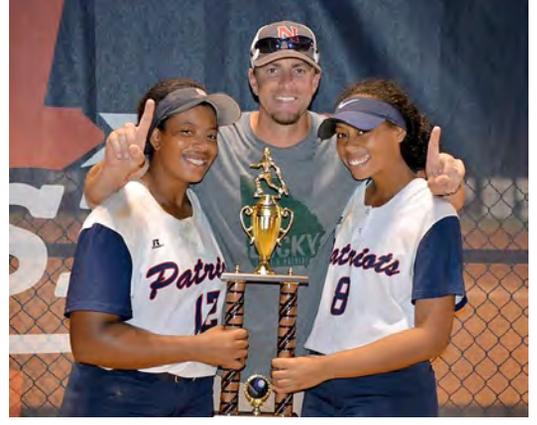


NHS Alma Mater

**Oh Patriots, Oh Patriots
We stand tall and proud.
We fight our way to victory
Defend our honor and our pride.
Oh Patriots, there's none like us,
We'll rise come what may.
Succeed in everything we do.
Conquering each day.
Northside High, Northside High
Red, White, and Blue.
We are the best above the rest
We pledge our hearts to you
Northside Patriots!**



PATRIOTS!



NORTHSIDE HIGH SCHOOL

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