

MESSAGE FROM THE PRINCIPAL

Dear Spartan Students,

Welcome to North Springs Charter High School, *A School of Higher Learning* where our focus is on student achievement for *all* students.

This is an exciting time in your life, discovering more about yourself, defining who you are and who you will be. It's also an important time for you to build a strong academic foundation for your future. At North Springs we want you to be an engaged, successful learner and to enjoy the fun of being a high school student.

We prepared this curriculum guide to help you during your high school journey plan and decide what courses to take. In it, you'll find our program offerings, course descriptions, and important grading and graduation information. Please use this as a resource and, as always, consult with your counselors as information can sometimes change. Make the most of your time here, take full advantage of all the opportunities offered at North Springs, enjoy your success and *Go Spartans!*

Scott Hanson
Principal

While you're making your selections, please remember to:

Focus on academics - We have created a curriculum with rigor and relevance. Be sure your course selections meet your goals for graduation, college and career options .

Challenge yourself - Register for classes that will challenge you! We offer 24 advanced placement classes, career pathways, joint-enrollment classes, and mentorship opportunities – some available to freshmen and sophomores while all are open to qualified juniors and seniors.

Get involved - We are proud to offer many clubs, activities and competitions that support leadership, academics, athletics, and the arts; we strongly encourage you to join and get involved.

Ask questions - Review this guide with your parents and/or guardian and consider your options carefully. If you have questions about the selection process, please contact our Guidance Department at 470-254-2498.





STUDENT ACHIEVEMENT PROGRAMS

OUR FOCUS IS ON STUDENT ACHIEVEMENT

North Springs High School was built in Sandy Springs in 1963. While much has changed in the school and in our community over the years, our commitment to providing students with the best preparation for the world that awaits them after graduation still remains. In 2007, we were the first high school in the Fulton County School system to become a charter school. We are now part of the Fulton County School system charter and have an active School Governance Council committed to developing and monitoring our strategic plan to serve *all* North Springs' students.

Our academic programs and many electives in Career, Technical and Leadership, Humanities, Math and Science, and Visual and Performing Arts give students the opportunity to pursue their passions beyond core courses. North Springs continues to offer the only dual magnet programs in Georgia: Math and Science and Visual and Performing Arts.

Advanced Placement (AP) Courses

North Springs Charter High School offers numerous Advanced Placement courses representing language arts, mathematics, science, social studies, world languages, music, and visual art. Most colleges and universities award credit for specific levels of performance on the AP exams administered in May. Enrollment is open to all qualified students. Completing the appropriate AP exam is mandatory in order to receive AP credit for the course. Interested students should contact an AP instructor or guidance counselor for information and application procedures. Interested students are highly encouraged to attend AP Bootcamp, which educates parents and students on the many aspects of taking an AP class.

Move On When Ready (MOWR)

Juniors and Seniors may enroll at a two-year, four-year, or technical college and take one or more courses which simultaneously count toward their high school diploma requirements as well as toward a college degree. Students may attend college full-time or part-time, during their junior or senior year. Various sources are available that cover tuition costs and other expenses.

Students should discuss MOWR enrollment with their guidance counselor, and students must apply to the specific institution, meet residency requirements, and minimum GPA, SAT/ACT requirements to be accepted.



STUDENT ACHIEVEMENT PROGRAMS

OUR FOCUS IS ON STUDENT ACHIEVEMENT

Advancement Via Individual Determination (AVID)

AVID is a program that uses proven practices to prepare students for success in high school, college and career, *especially students traditionally underrepresented in higher education*. AVID methodologies develop students' critical thinking, literacy and math skills across all content areas with the goal of:

- Providing intensive support with tutorials and strong student/teacher relationships
- Creating a positive peer group for students
- Developing a sense of hope for personal achievement through hard work and determination.
- Teaching skills and behaviors for academic success

Students must apply to the program.

Georgia Tech Math

Georgia Tech Calculus program is a virtual calculus series offered at North Springs. This class allows accelerated math students who have taken the highest level math offered on campus to continue math through Georgia Tech. The class is taught by a college professor in a North Springs classroom via the internet. Students receive college credit for Calculus 2 and Calculus 3 upon completion of both semesters. Prospective students need to speak with their counselor about deadlines and the application process.

Online Learning Programs

An educational opportunity where students can take classes through approved distance learning educational institutions may benefit some students. The following guidelines must be considered:

- ◇ Students should only consider taking online courses if they cannot take the course in their regular class schedule and/or Summer School.
- ◇ Students must meet with their counselor to fill out an "Off Campus Course Request Form" before signing up for an online course if outside of or other than Fulton or Georgia Virtual School.

Work-Based Learning Programs

North Springs' work based learning (WBL) program gives juniors and seniors the opportunity to learn by doing through high quality off-campus (often paid) internships or on-campus internships. To participate in WBL, students must complete a Career Pathway or have taken or be taking an Advanced Placement (AP) course. If the above criteria is met, students must complete an application, pass a screening interview with WBL Advisor Brian Patterson and then attend and pass an interview with a prospective employer. Once accepted, Work Based Learning provides students with a valuable experience—one that is relevant, rigorous and focused on readiness for college and career.



STUDENT ACHIEVEMENT PROGRAMS

Services for Exceptional Children (SEC)

North Springs Charter High School offers services to students with identified disabilities according to IDEA under the Americans with Disabilities Act. Individual Education Plans (IEPs) are developed annually according to the students birthday. The SEC program includes core academic courses offered in the least restrictive environment (consultative, support, team taught, or self contained) as determined by the IEP team. Teachers of SEC classes will assist all identified students and their parents in planning the most appropriate choice of classes. Please contact your child's case manager or his/her counselor with any questions.

English Language Learner (ELL)

Students qualifying for ELL services through testing are scheduled for appropriate classes based on their English proficiency. Sheltered academic classes are available for students to build language proficiency while earning academic credits. Sheltered classes offered vary from year to year. Student needs drive the creation of the sheltered classes. The Push-In ELL model is a service delivery model designed to support language and content instruction in the mainstream classroom where a mainstream teacher plans and team teaches along with an endorsed ELL teacher for Core content areas. New students, should contact the Counseling Office to make an appointment for registration and testing for the ELL program at North Springs.

Career-Technology Pathways

North Springs offers eight concentrations of study in the Career Technology Pathway:

- **Graphic Design Pathway** teaches students the process of communicating visually using typography and images to present information. The courses introduce students to the graphic software used in the graphic design industry .
- **Audio-Video Technology & Film Pathway** prepares students for employment or entry into a postsecondary education program in the Broadcast/Video Production field.
- **Web Development Pathway** provides students with essential web page planning and development skills. Students learn to write code manually, use graphical authoring tools and learn to work with web page layout and graphical elements.
- **Computer Science Pathway** provides students with the knowledge and ability to solve complex problems in computing for business, medicine, science, and other fields. Students learn to create, modify, and test codes, all while inventing and designing new approaches to computing technology and finding innovative uses for existing technology.
- **Allied Health & Health Information/Medical Office Pathway** provides challenging academic courses, relevant on-the-job experience, and specialized technical skills. Students learn basic concepts of health, wellness, and preventative care.
- **Diagnostics/Non-Invasive Technology in Healthcare Pathway** offers high school students the opportunity to explore and apply non-invasive diagnostic procedures in the field of cardiology, radiology and pulmonology. Students will gain certifications and build the foundation needed to further their healthcare education and possible career.
- **Accelerated Entrepreneurship Pathway** is the pathway for students who plan to own and operate their own businesses.
- **Leadership-JROTC Pathway—Junior Reserve Officer Training Corps** helps students build a strong knowledge base of self-discovery and leadership skills applicable to many leadership and managerial situations.

STUDENT ACHIEVEMENT PROGRAMS

Talented and Gifted Program (TAG)

The Talented and Gifted program at North Springs Charter High School meets the requirements of the Georgia Department of Education and provides diverse, high-quality opportunities for identified students. Based on the philosophy of nurturing the unique learning characteristics, interests, and capabilities of the gifted student, the goals of gifted services in Fulton County are to develop:

- ◇ Advanced research methods and independent study skills
- ◇ Creative thinking and creative problem-solving skills in order to be a generator of ideas and products original to the student
- ◇ Higher-Order and critical thinking skills
- ◇ Advanced communication skills which incorporate new techniques, materials, and formats in the development of products and ideas which will be shared with real audiences.
- ◇ More information can be found on the FCS website www.fultonschools.org

Grading Scale

All grades are reported numerically on transcripts and report cards. The grading scale is as follows:

- A= 90 and above
- B= 80-89
- C= 70-79
- F= 69 and below

Promotion/Retention

North Springs C High school students must earn a certain number of units in order to earn promotion to the next grade level.

Requirements for promotion are:

NSCHS Promotion Requirements	Grade 9 to 10	Grade 10 to 11	Grade 11 to 12
NSCHS Credit Requirements	5 credits	12 credits	19 credits
Core course requirements (Math, Science, Language Arts and Social Studies)	1.5 core credits earned	4 core credits earned	9 core credits earned
End of Course (EOC) Requirements: Meet/Exceed EOC expectations by GA Dept. of Education	EOC	EOC	EOCs

Summer school is an extension of the previous school year; therefore, summer courses count toward promotion to the next grade level. Students should be advised that grades remain on transcripts.



STUDENT ACHIEVEMENT PROGRAMS

Eligibility for Competitive Interscholastic Activities

Students participating in competitive interscholastic activities must have passed five (5) out of seven (7) classes during the previous semester and be on track to graduate. These subjects must carry credit towards graduation or grade promotion. Summer school is an extension of the second semester and will count towards eligibility for the first semester of the following school year. Students not meeting this requirement are not eligible for interscholastic competition until they complete this requirement at the end of a subsequent semester and are on track for graduation.

Class Schedule Changes

Once classes are scheduled in the spring of each year, it is difficult to make schedule changes because of faculty and staff limitations.

If there is a need to request a schedule change, students or parents must do so in writing during the schedule verification process each spring. **Students along with parents must carefully consider all courses being requested, including the combined time commitment for multiple Honors and AP courses with respect to a student's total school work load. Schedules are assigned for the year, and no process for changing schedules exists after the school year begins.** During the verification period, course changes will be granted on an "as available" basis and only when stated timelines for requests are followed.

After classes have been scheduled in the spring, requests for course changes will be considered only for the following reasons:

- The student has failed a required course and must repeat the course
- The student has failed a course prerequisite and is not eligible to continue in the course sequence
- The student has failed to enroll in a course required for graduation
- The student demonstrates poor achievement in a prerequisite course and is advised by the teacher, counselor, and Curriculum Assistant Principal not to enroll in a more advance course
- There is a scheduling conflict or a course has been cancelled
- A circumstance scheduled and not altered is deemed "extenuating" and action feasible by the Curriculum Assistant Principal, and the consideration requested is made within the first 10 school days.

Requests for teacher changes, class level changes, class period changes, or lunch period requests will not be honored.

North Springs reserves the right to make adjustments to student schedules due to changes in enrollment and/or to balance class sizes.

STUDENT ACHIEVEMENT PROGRAMS

Guidance and Counseling Services

North Springs Charter High School offers a comprehensive guidance and counseling program. The counseling staff is committed to providing services and support to students, staff, parents, and the community in order to help each student achieve his/her educational, career, and personal goals. The counselors help plan, implement, and evaluate educational plans based on student needs. During the pre-registration process, a counselor will advise students and parents on appropriate course selection after reviewing the student's course selection, transcript, and teacher recommendations. Additionally, there are several instances during a student's high school career in which the counselor will review his/her progress and ensure requirements for graduation and those associated with future goals are being satisfied; however, students and parents are also responsible for monitoring their progress and meeting requirements to graduate.

Parents and students may request appointments with their assigned counselor by calling the counseling office at 470-254-2498. Parents and students are encouraged to attend parent meetings and scheduled appointments in order to build a close working relationship with their counselor.

The Counseling Department provides the following services:

- Individual Counseling
- Group Counseling
- Classroom Guidance
- Parent Conferences
- Post Secondary Planning
- Parent Meetings
- Assistance with School Wide Testing
- Community Referral Liaison
- Crisis Intervention
- Academic, Personal, and Social Counseling

College and Career Center (CCC)

The center is a warm and inviting place for students to come and explore college and career options. Students are encouraged to visit the College & Career Center. Parents are welcome to take advantage of our resources, as well, by making appointments to visit with our CCC Advisor. Catalogues, college guidebooks, and test preparation books can be borrowed and checked out for personal use. Computers are available for students to research colleges and scholarships, complete applications, and register for the SAT and ACT. College representatives visit North Springs, particularly in the fall and early spring, to meet with interested students.

The CCC host the following services:

College visits	Lunch and Learn Series on Various Topics	Resume Writing
Summer Enrichment	College Application Process	Transcript Request
Mock Interviewing	Military Options	Test Preparation Tutors
Career Exploration	Financial Aid	Scholarships
SAT and ACT Preparation	Subject Area Tutors	
Fall College/Career Fair		

GRADUATION INFORMATION

MINIMUM GRADUATION REQUIREMENTS

SUBJECT AREA AND CREDIT REQUIREMENTS

	Non-Magnet	Magnet
LANGUAGE ARTS	4	4
MATHEMATICS	4	4
SCIENCE	4	4
WORLD HISTORY	1	1
AMERICAN HISTORY	1	1
ECONOMICS	.5	.5
AMERICAN GOV'T	.5	.5
PERSONAL FITNESS	.5	.5
HEALTH	.5	.5
ELECTIVES	7	10
TOTAL CREDITS	23	26

GRADING SCALE (UNWEIGHTED)

A = 90 - 100	(4 quality points)
B = 80 - 89	(3 quality points)
C = 70 - 79	(2 quality points)
F = 69-Below	(0 quality points)

GPA CALCULATION

To calculate Grade Point Average (GPA), each letter grade is converted to a quality point number. The quality points are totaled and divided by the total by the number of classes on the schedule (seven for a full time student).

$$A = 4, B = 3, C = 2, F = 0$$

Example: The report card shows 3 A's, 3 B's, and 1 F. Each A earns 4 points = 12. Each B earns 3 points = 9, and the F earns 0 point = 0.
 $12 + 9 + 0 = 21$. Divide 21 by 7 = **3.000**.

The county office will calculate official GPAs which will be updated at the end of each semester.

Promotion Policy

The following requirements must be met to be promoted to the grade level indicated.

	Credits
Sophomores:	5
Juniors:	12
Seniors:	19

DIPLOMAS

NSCHS will continue to require 26 credits for students to earn a high school diploma, and will give all students options to pursue additional credits and a differentiated diploma designed to recognize higher levels of academic achievement.

Graduation Participation Requirements

Students must have fulfilled all State and County requirements for Graduation in order to participate in graduation ceremonies.

PREPARING FOR THE FUTURE

ACADEMIC RECOGNITION

National Honor Society (NHS)

The National Honor Society is a prestigious national academic organization. To become a member, students must demonstrate outstanding scholarship, active service, leadership and worthy character. Selection is made once a year for eligible juniors and seniors. To qualify, the student must have a minimum cumulative, weighted GPA of 3.4. Candidates must also meet the NHS criteria for service, leadership, and character. Applications are made available to those students meeting the GPA requirement.

Other Honor Societies

To recognize outstanding academic performance and course selection, each academic department has individual honor societies with specific criteria. These include, but are not limited to the National Art Honor Society, National Math Honor Society, National Science Honor Society, French and Spanish Honor Society.

Get Involved!!! Students who are actively involved with academics and extracurricular activities normally find success in both. Club Rush is held soon after school starts so students can learn about clubs, sign up to join or start a new club!

CLUBS/SPORTS for 2016-17

Revolutionary Game and Design

Interact Club

HOSA

Digital Masterminds

Serve Sandy Springs

Model United Nations

Anime Club

Science National Honors Society

Community Assisting Spartans

Raising Awareness for Health Safety

African American Life, History, and Culture Club

French Honors Society

Habitat for Humanity

Fashion Club

Pop Culture Association

Improv Troup

Mind Support

Yoga Club

Sisters in Service

Fem=Men

Lady Spartans

Spartan Rewards Club

Latin Club

Mock Trial

Spanish Honor Society

Women in Technology

Jewish Culture Club

The Junto

Open Hand Open Heart

Rocketry Club

Thespian Society

Sci Fi Club

Math Honor Society

Youth Making a change

Young Liberals for America

Blended

Chinese Culture Club

National Art Honor Society/

Art Club

FBLA

Chess Club

Conspiracy Club

Math Team

Girls with a purpose

Food Fun Friday

UNICEF

Computer Science

Table Top Gaming

Fencing Club

Science Olympiad

BOYS TEAMS

FALL SPORTS

Football

Cross Country

Water Polo

Softball

Cross Country

Cheerleading

Volleyball

WINTER SPORTS

Air Rifle

Basketball

Swimming

Wrestling

Air Rifle

Basketball

Swimming

Cheerleading

SPRING SPORTS

Baseball

Golf

Lacrosse

Soccer

Track & Field

Tennis

Golf

Lacrosse

Soccer

Track & Field

Tennis

COURSE SEQUENCES

Course Sequence Suggestions

Language Arts (4 Units)	
Class	# of Units Required
9th Literature/Comp	1
10th Literature/Comp	1
11th Literature/Comp or AP Language	1
12th World Lit (.5) and Multi Lit./ (.5) or AP Literature (1)	1

Math (4 Units)	
Class	# of Units Required
Algebra 1 or Accel. Algebra 1 H	1
Geometry or Accel. Geometry H	1
Algebra 2 or Pre-Calculus/Pre-Cal H	1
Pre-Calculus/Pre-Cal H/AMDM or AP Math Course	1

Science (4 Units)	
Class	# of Units Required
Earth System or Honors Biology	1
Biology, Chemistry, OR Honors Chemistry	1
Physics, AP Physics	1
4th Science	1

Social Studies (3 Units)	
Class	# of Units Required
AP Human Geography (Elective)	1
World History OR AP World History	1
US History OR AP U.S History	1
American Government .5 Economics .5	1

Advanced weight training/physical conditioning
Strongly recommended for all varsity athletes

Health & PE (1 unit)	
Class	# of Units Required
General Health	.5
Personal Fitness	.5

CTL and/or World Language and/or Fine Arts (3 Units)	
Class	# of Units Required
World Language	1
Fine Arts	1
Optional 3rd year WL	1

See following pages for sequencing within each Visual Performing Arts, Math/Science, Career Tech, and Humanities.

CAREER TECHNOLOGY PATHWAYS

<p><u>Arts, Audio-Video Technology and Communications Career Cluster</u> <i>Graphic Design Pathway</i> 1.) Introduction to Graphics and Design 2.) Graphic Design and Production 3.) Advanced Graphic Design * Work-based Learning</p>	<p><u>Arts, Audio-Video Technology and Communications Career Cluster</u> <i>Audio-Video Technology & Film Pathway</i> 1.) Audio-Video Technology Film I 2.) Audio-Video Technology Film II 3.) Audio-Video Technology Film III * Work Based Learning</p>
<p><u>Information Technology Career Cluster</u> <i>Web Development Pathway</i> 1.) Introduction to Digital Technology 2.) Computer Science Principles 3.) Web Development *Work-Based Learning</p>	<p><u>Information Technology Career Cluster</u> <i>Computer Science Pathway</i> 1.) Introduction to Digital Technology 2.) Computer Science Principles 3.) AP Computer Science * Work Based Learning</p>
<p><u>Healthcare Science Career Cluster</u> <i>Allied Health– Medical Office Pathway</i> 1.) Introduction to Healthcare Science 2.) Essentials of Healthcare 3.) Allied Health & Medicine * Medical Services Internship</p>	<p><u>Healthcare Science Career Cluster</u> <i>Diagnostics/Non-Invasive Technology Pathway</i> 1.) Introduction to Healthcare Science 2.) Essentials of Healthcare 3.) Non-Invasive Diagnostic Technology * Medical Services Internship</p>
<p><u>Business Management & Administration Career Cluster</u> <i>Accelerated Entrepreneurship Pathway</i> 1.) Introduction to Business and Technology/ Legal Environment of Business– Combined Course 2 Credits 2.) Entrepreneurial Ventures * Work-Based Learning</p>	<p><u>Government and Public Administration Cluster</u> <i>Leadership JROTC Pathway</i> 1.) JROTC 1 2.) JROTC 2 3.) JROTC 3 4.) JROTC 4</p>



CAREER TECHNOLOGY PATHWAYS

Arts, Audio-Video Technology and Communications

Graphic Design Pathway

Introduction to Graphics and Design (1.0 Credit)

Pre-requisite: None

This course is designed as the foundational course for both the Graphics Production and Graphics Design pathways. The Graphics and Design course provides students with the processes involved in the technologies of printing, publishing, packaging, electronic imaging, and their allied industries. In addition, the Graphics and Design course offers a range of cognitive skills, aesthetics, and crafts that includes typography, visual arts, and page layout. Pre-requisite for this course is adviser approval

Graphic Design and Production- Course Number 48.56200 (1.0 Credit)

Pre-requisite: Introduction to Graphics and Design & educators recommendation

As the second course in the Graphics Communication and Graphics Design Pathways, this course builds on knowledge and skills learned in the Introduction to Graphics and Design course and focuses on procedures commonly used in the graphic communication and design industries. Students will gain more experience in creative problem solving and the practical implementation of those solutions across multiple areas of graphic design and graphic communications. The prerequisite for this course is Introduction to Graphics and Design.

Advanced Graphic Design Course Number: 48.52800 (1.0 Credit)

Pre-requisites: Graphic Design & Production, student portfolio & educators recommendation

Students will continue to explore in an increasingly independent manner, the principles of design and layout procedures relating to the field of graphic design. Content will cover electronic systems and software programs used in graphic design, page composition, image conversion, and digital printing. Knowledge and skills in digital design and imaging will be enhanced through experiences that simulate the graphic design industry and school-based and work-based learning opportunities. This is the final course in the Graphic Design pathway.

CAREER TECHNOLOGY PATHWAYS CONT.

Arts, Audio-Video Technology and Communications Career Cluster

Audio-Video Technology and Film Pathway

Audio & Video Technology & Film I- Course Number 10.51810 (1.0 Credit)

Prerequisite: advisor approval

This course will serve as the foundational course in the Audio & Video Technology & Film pathway. The course prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics covered may include, but are not limited to: terminology, safety, basic equipment, script writing, production teams, production and programming, lighting, recording and editing, studio production, and professional ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program. All material covered in Audio & Video Technology & Film I will be utilized in subsequent courses. The pre-requisite for this course is advisor approval.

Audio Video Technology and Film II– Course Number: 10.51910 (1.0 Credit)

Prerequisite: Audio & Video Technology & Film I & advisor approval

This one credit course is the second in a series of three that prepares students for a career in Audio Video Technology and Film production and/or to transfer to a postsecondary program for further study. Topics include Planning, Writing, Directing and Editing a Production; Field Equipment Functions; Operational Set-Up and Maintenance; Advanced Editing Operations; Studio Productions; Performance; Audio/Video Control Systems; Production Graphics; Career Opportunities; and Professional Ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program.

Audio Video Technology and Film III

Prerequisite: Audio & Video Technology & Film II & advisor approval

Information Technology Career Cluster

Web Development Pathway

Introduction to Digital Technology-Course Number 11.41500 (1.0 Credit)

Pre-requisite: Advisor approval

Intro to Digital Technology (IDT) is the foundational course for Web & Digital Communications, Programming, Advanced Programming, Information Support & Services, and Network Systems pathways. This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in hardware, software, programming, web design, IT support, and networks are all taught in a computer lab with hands-on activities and project focused tasks. Students will not only understand the concepts, but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of both the employability skills standards and content standards for this course.

Computer Science (CS) Principles-Course Number: 11.47100 (1.0 Credit)

Pre-requisite: Intro to Digital Design & advisor approval

CSP is an intellectually rich and engaging course that is focused on building a solid understanding and foundation in computer science. This course emphasizes the content, practices, thinking and skills central to the discipline of computer science. Through both its content and pedagogy, this course aims to appeal to a broad audience. The focus of this course will fall into these computational thinking practices: connecting computing, developing computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating. Computer Science Principles is the second course in the pathways Programming and Computer Science in the Information Technology Cluster. Students enrolled in this course should have successfully completed Introduction to Digital Technology.

Web Development- Course Number: 11.42500 (1.0 Credit)

Pre-requisite: Computer Science Principles, student portfolio and advisor approval

This course, with Hypertext Markup Language (HTML) and Cascading Style Sheet (CSS) as its foundation, will teach students to develop and design responsive web sites through coding, testing, debugging and implementation of web-based services. This course will also allow students to learn about content management systems, client side languages, server side languages, and database concepts. The course is designed to give students foundational knowledge of "front-end" and "back-end" development to address the presentation and data access layers of web site development.

Information Technology Career Cluster

Computer Science Pathway

Introduction to Digital Technology-Course Number 11.41500 (1.0 Credit)

Pre-requisite: Advisor approval

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AP Computer Science- College Board (1.0 Credit)

Prerequisite: Computer Science Principles, student portfolio & advisor approval

AP Computer Science is equivalent to a college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes object-oriented and imperative problem solving and design using the Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

CAREER TECHNOLOGY PATHWAYS CONT.

Health Science Career Cluster

Allied Health and Medical Office Pathway

Introduction to Healthcare Science- Course Number 25.52100 (1.0 Credit)

Prerequisite: Advisor approval

Introduction to Healthcare Science is the foundational course for all Health Science pathways and is a prerequisite for all other Healthcare Science pathway courses. This course will enable students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry. 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 will provide students with a competitive edge to be the better candidate for either entry into the healthcare global marketplace and/or the post-secondary institution of their choice to continue their education and training. The pre-requisite for this course is advisor approval.

Essentials of Healthcare- Course Number: 25.44000 (1.0 Credit)

Pre-requisite: Introduction to Healthcare Science & advisor approval

Anatomy and Physiology is a vital part of most healthcare post-secondary education programs. The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders. The pre-requisite for this course is Introduction to Healthcare.

Allied Health and Medicine-Course Number: 25.43700 (1.0 Credit)

Pre-requisites: Essentials of Healthcare, student portfolio & advisor approval

This course is designed to offer students the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities. Students focusing on a career path in the healthcare field may apply classroom/lab knowledge and skills in the clinical setting as they participate in direct or simulated client care. The curriculum allows instructors to provide options for classroom/student growth opportunities in area(s) of interest to the student. These options may be determined by community need, available resources, and/or student interest, etc. This course was developed according to a basic 50-minute class time frame, but may be adjusted according to local system schedules. Instructors may select which classroom content standards 1-14 best meet his/her individual classroom needs in addition to the required clinical/capstone project to equal total class time available for the course.

Health Science Career Cluster

Non-Invasive Diagnostic Technology Pathway

Introduction to Healthcare Science- Course Number 25.52100 (1.0 Credit)

Pre-requisite: Advisor approval

Introduction to Healthcare Science is the foundational course for all Health Science pathways and is a prerequisite for all other Healthcare Science pathway courses. This course will enable students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry. 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 will provide students with a competitive edge to be the better candidate for either entry into the healthcare global marketplace and/or the post-secondary institution of their choice to continue their education and training. The pre-requisite for this course is advisor approval.

Essentials of Healthcare- Course Number: 25.44000 (1.0 Credit)

Pre-requisite: Introduction to Healthcare Science & advisor approval

Anatomy and Physiology is a vital part of most healthcare post-secondary education programs. The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.

Non-Invasive Diagnostic Technology: 25.44500(1.0 Credit)

Pre-requisite: Essentials of Healthcare, student portfolio & advisor approval

This course is designed to offer high school students (juniors and seniors) the opportunity to explore and apply non-invasive diagnostic procedures in the field of cardiology, radiology and pulmonology. This course should pique the interest in students to seek certifications and further their education using the knowledge and practical application of non-invasive techniques in the area of cardiology, radiology and pulmonology.

CAREER TECHNOLOGY PATHWAYS CONT.

Business Management and Administration Career Cluster Entrepreneurship **Accelerated Pathway**

**Introduction to Business & Technology- Course Number 07.44130 &
Legal Environment of Business- Course Number 06.4150 (2.0 Credit)**

Prerequisite: Advisor approval & must be in 10th grade or higher

North Springs Charter High School is excited to pilot the first accelerated pathway in Entrepreneurship for Fulton County. Please note that students will be covering content for two classes condensed into a one year time frame. Students will earn two credits and grades for their performance in the accelerated pathway.

The content covered in the accelerated class includes...

Introduction to Business & Technology is designed for high school students as a gateway to a career in business, and provides an overview of business and technology skills required for today's business environment. Knowledge of business principles, the impact of financial decisions, and technology proficiencies demanded by business combine to establish the elements of this course. Students will learn essentials for working in a business environment, managing a business, and owning a business. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Various forms of technologies will be highlighted to expose students to the emerging technologies impacting the business world. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career ready. After mastery of the standards in this course, students should be prepared to earn an industry recognized credential: Microsoft Office Specialist for Word Core Certification.

Additionally, students will get an overview of business law while concentrating on the legal aspects of business ownership and management. Legal issues addressed include court procedures, contracts, torts, consumer law, employment law, environmental law, international law, ethics, and the role of the government in business. Students will not only understand the concepts, but will also apply their knowledge to situations and defend their actions, decisions, and choices.

Entrepreneurship- Course Number: 06.41610 (1.0 Credit)

Prerequisite: Accelerated IBT and Business Law Course & advisor approval

Students will be exposed to the development of critical thinking, problem solving, and innovation in this course as they will either be the business owner or individuals working in a competitive job market in the future. Integration of accounting, finance, marketing, business management, legal and economic environments will be developed throughout projects in this course. Working to develop a business plan that includes structuring the organization, financing the organization, and managing information, operations, marketing, and human resources will be a focus in the course. Engaging students in the creation and management of a business and the challenges of being a small business owner will be fulfilled in this course.



CAREER TECHNOLOGY PATHWAYS

JROTC – LEADERSHIP COMPONENTS 1, 2, 3 AND 4

Course Description:

Junior Reserve Officer Training Corps (JROTC) is a leadership education program. This program will help students build a strong knowledge base of self-discovery and leadership skills applicable to many leadership and managerial situations. Mastery of these standards through project based learning, service learning and leadership development activities will prepare students for 21st Century leadership responsibilities. This laboratory course is designed to introduce students to the history, customs, traditions and purpose of the Army Junior ROTC program. It teaches students strategies to maximize their potential for success through learning and self-management. Basic leadership skills include leadership principles, values, attributes, and communications skills.

Core Abilities:

The JROTC core abilities describe the broad, life-long skills that every cadet needs for success, in all careers and life roles. They are drawn from the overall goals and values that drive the JROTC program. Core abilities are not learned in one lesson or Leadership Education Training course, but rather they are linked to lesson competencies in order to integrate or thread them throughout the JROTC curriculum. In each lesson, the core abilities will be introduced, taught, reinforced, and assessed. Every student should know all of the core abilities, as they are essential, value-added skills that every employer seeks. Using these Core Abilities, Students will:

- Take responsibility for your actions and choices
- Apply critical thinking techniques
- Communicate using verbal, non-verbal, visual, and written techniques
- Build your capacity for life-long learning
- Do your share as a good citizen in your school, community, country and the world
- Treat self and others with respect

JROTC enables students to

- Develop new skills for use in school and throughout life.
- Learn about character and values, leadership theories and principles, and human behavior.
- Gain invaluable knowledge through hands-on experiential learning activities to build self-awareness, essential life skills, and the ability to set and achieve goals.
- Apply knowledge gained from content areas that include communication, diversity, study skills, conflict resolution, decision-making, and service learning.

Academic Standards:

The JROTC curriculum is based upon a systematic progression of learning. The scope, focus and content of instruction are both sequential and independent. The leadership unit of instruction allows for many training opportunities for cadets to exercise a student chain of command.

First and second year cadets receive education and training. Training is designed to enhance skills, knowledge, and abilities, of cadets and reinforce instruction in leadership theory.

Third year cadets learn instructional techniques and more advanced styles of leadership.

Fourth year cadets act on guidance from the Senior Army Instructor or Army Instructor to plan, prepare, and execute training, prepare for assigned tasks, and conduct training for younger cadets.



ADVANCED PLACEMENT

The Advanced Placement (AP) Program is a cooperative educational endeavor with the College Board. It is based on the premise that many high school students are capable of completing college-level courses. The AP Program represents a desire for schools and colleges to foster such experiences. Advanced Placement serves three groups: (a) students who wish to pursue college-level studies, (b) schools that desire to offer these opportunities, and (c) colleges that wish to encourage and recognize such achievement. Participating colleges grant credit and/or appropriate placement to students who have done well on the examinations. The only requirements are a strong curiosity about the subject, a plan to study, and the willingness to work hard.

AP courses require extra reading and analysis time on the part of the student. Standardized examinations are given during May of each year, with scores of 1-5 being reported to colleges of choice. During the enrollment process, please students should visit with their counselor regarding AP courses they may wish to take.

AP COURSES OFFERED AT NORTH SPRINGS CHARTER HIGH SCHOOL

AP American Government:

Involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Strong reading, writing and time management skills are beneficial.

AP American (US) History:

Students learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship.

AP 2D Design, 3D Design, AP Drawing

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. This consists of three programs— 2D Design, 3D Design and Drawing –corresponding to common college foundation programs.

AP Art History:

Engages students at the same level as an introductory college art history course, where students develop skills in visual, contextual and comparative analysis. Topics covered include Global Prehistory, Ancient Mediterranean, Early Europe and Colonial Americas, Later Europe and Americas, Indigenous Americas, Africa, West and Central Asia, South, East and Southeast Asia, The Pacific and Global Contemporary.

AP Biology:

A rigorous and demanding course which is the equivalent of an introductory college biology course. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than previous biology courses.

AP Calculus AB:

Most of the year must be devoted to topics in differential and integral calculus. Students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand trigonometry.

AP Calculus BC:

Includes all topics covered in Calculus AB plus integration techniques, L' Hospital's Rule, sequences and series.

AP Computer Science A:

Emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction.

AP Environmental Science:

Enables students to undertake, as first year college students, a more advanced study of topics in environmental science or fulfill a basic requirement for a laboratory science.



ADVANCED PLACEMENT

AP Human Geography:

Involves economic theories and models, international conflicts, border disputes, world religions, the origin of languages, urban development, industrialization and city planning are among issues explored in this course.

AP Language/American Lit:

Engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled in composing for a variety of purposes.

AP Literature:

Is an advanced study of literature and is designed for critical reading and interpretation of text.

AP Microeconomics:

Gives students a thorough understanding of the principles of economics that apply to the decisions of individuals with the larger economic system. It places primary emphasis on the nature and functions of market products. Pre-Calculus is a pre-requisite.

AP Music Theory:

Progresses to include creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation.

AP Physics 1:

Algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits

AP Physics 2:

an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics. Students cultivate their understanding of Physics through inquiry-based investigation as they explore topics such as fluid statics and dynamics, through inquiry-based investigations as they explore topics such as thermodynamics with kinetic theory; PV diagrams and probability, electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics, and quantum, atomic, and nuclear physics.

AP Psychology:

Introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. Strong background in biology is beneficial.

AP Spanish Language:

Emphasizes the use of language for active communication and helps develop the ability to understand spoken Spanish in various contexts.

AP French Language:

Takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness.

AP Latin:

Is an extension of Latin IV Honors, and students sit for the Advanced Placement Exam

AP Statistics:

Introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

AP World History:

Highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies.



VISUAL ARTS ELECTIVES

Intro to Art :

Is an entry level class for students in the visual arts magnet program. The class establishes a standard and consistent foundation in the discipline of visual art. Students will meet standards in a variety of aspects of visual art including but not limited to art as personal communication, drawing, sculpture, ceramics, design, aesthetics, careers, art criticism, art history and presentation of artwork.

Design Fundamentals:

This course extends the standards and foundation that were established in the Introduction to Art course. Content focuses on the arrangement of visual elements in space. Students will explore visual art as it relates to visual elements in space including, but not limited to, art as personal communication, drawing, painting, three dimensional design, aesthetics, art criticism and art history

Art History (1-2)

Is the study of paintings, sculpture, architecture, and various minor art forms from the Paleolithic to the Late International Gothic eras. Aesthetics and art criticism will be incorporated into the course.

Ceramics (1-4)

Is an introductory course in ceramics covering the three basic methods of hand building. Students will produce ceramic artwork using pinch, slab, and coil techniques. Students will learn the basic vocabulary of ceramics as well methods of surface treatment, firing, and other related aspects. Ceramic history, aesthetics, and art criticism will be incorporated throughout the course.

Drawing & Painting (1-4)

Is the first in a series of courses for students who are serious about developing their drawing skills. Drawing Styles, techniques, materials, historical styles/periods, and color theory are included in the curriculum.

Sculpture: (1-4)

Involves working 3D with a variety of media. The additive, subtractive, and modeling processes will be the primary focus.

Photography (1-4)

These courses include an introduction to black and white photography and darkroom processing. Students will construct their own pinhole camera and create a photographic portfolio as they learn the technical and artistic aspects of photography. An introduction to digital photography will be included. Photo history, critiques of photos, aesthetics and design will be addressed throughout the semester.

Performing Arts Electives

Beginning Band

Students wishing to start a wind or percussion instrument who have never been in band or have been in for less than a year.

Intermediate Band (1-2)

Students who have been in band for one or more years. Each course is appended 1 or 2 to designate sequence.

Advanced Band (1-4)

Approved students only. Each course is appended 1-4 to designate sequence.

Brass, Woodwind, and Percussion Masters (Inst. Masters)

Students who have had one or more years in band. This is a class for individual study. Appended 1-4 to designate sequence.

Music Theory I

Introduces the fundamentals of organized sound. Emphasizes rules of Western music composition and offers opportunities to create original works.

Intro to Music Technology

Learn concepts of music technology, production, MIDI, multi-track editing, composition, sequencing, and notation software .



PERFORMING ARTS ELECTIVES

Beginning Orchestra

Provides opportunities to develop performance skills and precision on orchestral stringed instruments. Emphasizes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and ensemble experiences.

Intermediate Orchestra

Provides opportunities for intermediate-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels

Advanced Orchestra

Provides opportunities for advanced-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Mastery Orchestra (1-4)

Provides opportunities for mastery level performers to increase performance skills using same methods, ideas and concepts listed above.

String Masters I, II, III, IV

This course is designed to function as a secondary course for Magnet students who wish to use the class for additional individual and orchestral practice, or to learn a new instrument. Student placement must be approved by instructor .

Keyboard Tech

Introduces basic piano keyboard techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

Piano Master

Offers opportunities for intermediate-level performers to increase performance skills and knowledge in keyboard techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music.

Beginning Chorus

Provides opportunities to develop performance skills and knowledge in mixed choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels.

Intermediate Chorus

Provides intermediate-level performers opportunities to increase performance skills and knowledge in mixed choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels.

Advanced Chorus

Provides advanced-level performers opportunities to increase performance skills and knowledge in mixed choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Mastery Chorus

Provides mastery level performance opportunities to increase skills using the vocal ideas, methods and concepts listed above.



PERFORMING ARTS ELECTIVES

Jazz Dance I

Introduces basic jazz techniques and vocabulary. Emphasizes aesthetic perception, creative expression and performance, historical and cultural heritage, aesthetic judgment and criticism.

Modern Dance I

Introduces modern dance; covers shape, form, line and experimentation with individual expression and creativity. Stresses aesthetic perception, creative expression and performance, historical and cultural heritage and aesthetic judgment and criticism.

Modern Dance II

Enhances level-one skills; emphasizes complex rhythms, movement combinations, longer phrases, transitions and centering on a specific technique.

Modern Dance III

Enhances level-two skills; emphasizes intermediate-level technical skills, a further expansion of modern dance vocabulary, improvisation and a broader experience of performance opportunities.

Modern Dance IV

Enhances level-three skills; emphasizes advanced-level technical skills, speed and quality of movement, complex combinations, improvisational performance technique, the development of individual style and artistic growth.

Dance Master I

Covers placement, turn out, body lines, epaulement, adagio and allegro skills. Stresses aesthetic perception, creative expression and performance, historical and cultural heritage and aesthetic judgment and criticism.

Dance Master II

Enhances level-one skills; emphasizes the development and execution of elementary technical skills. Offers opportunities to perform and observe quality dance as an art form.

Dance Master III

Enhances level-two skills; emphasizes intermediate-level technical skills, a further expansion of ballet vocabulary and a broader experience of performance opportunities.

Dance Master IV

Enhances level-three skills; emphasizes advanced-level technical skills, technique development, artistic growth and individual style.

Dance Composition

Introduces dance composition; covers how to identify and execute the basic principles of composition (i.e., design, improvisation, use of qualities and musical forms). Concentrates on the development of themes and performance of multiple phrase composition.



PERFORMING ARTS ELECTIVES

Acting I

Introduces advanced acting process. Stresses developing imagination, observation, concentration powers and self-discipline. Includes developing physical and vocal control while transmitting emotions, convictions and ideas; enhances self-confidence and self awareness. Focuses on scene study.

Acting II

Enhances level-one skills with emphasis on classical and historical scene study.

Advanced Drama

Introduces acting and theater as disciplined art forms; covers methods to observe and understand human behavior and to use those observations to create a character. Includes basic techniques of stage movement and use of physical expression for communication. Enhances vocal techniques and specific patterns for better verbal communication.

Theater Technology I

Emphasizes theater operation, production management, scenic design, and theatrical management including lighting, sound, stage and house management, building and equipment maintenance, and working with performers and patrons of the arts.

Theater Technology II

Emphasizes practical use of the equipment and operation of the theater including use of lighting and sound equipment, stage and house management, building and equipment maintenance and working with performers and patrons of the arts.

Theater Technology III

Enhances level-two and -three skills and includes in-depth exploration of theater operation, production management, scenic design, and theatrical management including lighting, sound, stage and house management, building and equipment maintenance, and working with performers and patrons of the arts.

Theater Technology IV

Enhances level-two and -three skills and includes in-depth exploration of theater operation, production management, scenic design, and theatrical management including lighting, sound, stage and house management, building and equipment maintenance, and working with performers and patrons of the arts. Offers opportunities to apply skills in these areas.

Fundamentals of Theater

Serves as prerequisite for other theater/drama courses. Develops and applies performance skills through basic vocal, physical and emotional exercises; includes improvisation and scene study and related technical art forms.

Theater Literature I

Introduces the historical development of theater and the literature of each historical period; focuses on architecture, significant people and events.

Theater Literature II

Enhances level-one skills and continues to explore the development of theater and historical literature; extends focus on architecture, significant people and events.



HUMANITIES ELECTIVES

AVID

Advancement Via Individual Determination is an elective class that offers students an opportunity to prepare themselves for successful participation in college course work. This elective is also designed to increase school-wide learning and performance. The mission of AVID is to ensure that all students, especially the least served students in the middle are capable of completing a college path, can succeed in a rigorous curriculum, enter mainstream activities of the school, increase their enrollment in four-year colleges, and become educated and responsible participants and leaders in a democratic society.

Peer Leadership

This course is designed to support our Student Government elected officers in contributing to the school culture through planning and research

Peer Facilitation

This course enhances skills learned in Peer Leadership and provides practice in modifying instructional methods and materials, enabling communication, and demonstrating appropriate social interaction skills. Students will be able to assist teachers, staff in various tasks.

Journalism I

This course focuses on journalistic writing through analysis of newspapers, yearbooks, literary magazines, and broadcast journalism publications. A concentration on the following components of journalistic writing is critical: influence, purpose, structure, and diction. Reading, writing, and critical thinking are key components as students explore the power and influence of journalism. Students will participate in news gathering, the study of ethics, and the aspects of copy writing, editing, and revising and will study the ethics of journalism. If a publication is produced, the students will learn the process of publishing.

Journalism II

The course offers an advanced study of journalistic writing. Skills from Journalism I are continued; the students focus on a more intense analysis of print and broadcast publications. Students read extensively to explore and analyze the influence of good journalistic writing. This course requires more critical thinking and more in-depth writing.

Journalism III

This course is an extension of Journalism I and II; the students will enhance and hone the skills in journalistic writing, with a main focus in analysis of print and broadcast publications. An in-depth coverage of level-two topics will serve as the main premise. Students will evaluate and apply skills appropriately and efficiently to various publication opportunities and activities

Journalism IV

This course is designed for students who have mastered skills in Journalism III. The students will publish journalistic articles either in a school newspaper or in the local newspaper. Research and interviews will be required when formulating ideas for writing. The range of opportunities to apply skills will be increased.

Journalism Courses are divided into concentrations that require sponsor approval.

Concentrations are as follows:

Yearbook

Literary Magazine

Newspaper



WORLD LANGUAGES

French I

Introduces the French language; emphasizes all skills: listening, speaking, reading, and writing in an integrated way. Includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of French-speaking cultures.

French II and II Honors

Enhances Level One skills in French and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics. Provides opportunities to increase understanding of French-speaking cultures.

French III and III Honors

Enhances Level Two skills in French and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of French-speaking cultures.

French IV and IV Honors

Enhances Level Three skills in French and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued language development through exploration of familiar and unfamiliar topics and provides opportunities to develop a broader and more extensive understanding of French-speaking cultures.

AP French

Is an Extension of French IV Honors, and students sit for the Advanced Placement Exam, possibly receiving College Credit for a score of 3 or above.

Spanish I

Introduces the Spanish language; emphasizes all skills: listening, speaking, reading, and writing skills in an integrated way. Includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Spanish-speaking cultures.

Spanish II and II Honors

Enhances Level One skills in Spanish and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to increase understanding of Spanish-speaking cultures.

Spanish III and III Honors

Enhances Level Two skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of Spanish-speaking cultures.

Spanish IV and IV Honors

Enhances Level Three skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued language development through exploration of familiar and unfamiliar topics and provides opportunities for a broader and more extensive understanding of Spanish-speaking cultures.

AP Spanish

Is an Extension of Spanish IV Honors, and students sit for the Advanced Placement Exam, possibly receiving College Credit for a score of 3 or above.



WORLD LANGUAGES

Chinese I

Introduces the Chinese language; emphasizes all skills: listening, speaking, reading, and writing in an integrated way. Includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Chinese-speaking cultures.

Chinese II and II Honors

Enhances Level One skills in Chinese and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to increase understanding of Chinese-speaking cultures.

Chinese III and III Honors

Enhances Level Two skills in Chinese and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of Chinese-speaking cultures.

Chinese IV and IV Honors

Enhances Level Three skills in Chinese and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued language development through exploration of familiar and unfamiliar topics and provides opportunities for a broader and more extensive understanding of Chinese-speaking cultures.

Latin I

Introduces students to the Latin language and ancient Roman civilization. Emphasizes the ability to write simple Latin phrases and to understand simple Latin passages presented orally and in writing.

Latin II and II Honors

Enhances Level One skills and provides opportunities to translate longer, more challenging passages. Emphasizes how ancient Roman language and civilization has influenced Western language and civilization.

Latin III Honors

Enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth, and fifth year levels. The authors whose works are studied are Catullus, Cicero, Horace, Ovid, and Vergil. Selected works from authors such as Aulus Gellius, Juvenal, Livy, Martial, Cornelius Nepos, Plautus, Sallust, Pliny, as well as authors from later Latin, can be included. Explores the political, economic, social characteristics represented in the works studied and examines the various writing styles of the authors.

Latin IV Honors

Enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth, and fifth year levels. Explores the political, economic, social characteristics represented in the works studied and examines the various writing styles of the authors.

AP Latin

Is an Extension of Latin IV Honors, and students sit for the Advanced Placement Exam, possibly receiving College Credit for a score of 3 or above.



MATH AND SCIENCE ELECTIVES

Microbiology

Introduces science process skills and laboratory safety, historical microbiology, growth and identification of bacteria, controlling microbial growth, archaeobacterial, prokaryotes, eukaryotes, viruses, pathogenic microbiology, food and dairy microbiology, soil and water microbiology. Includes reference and research skills.

Botany

Introduces science process skills and laboratory safety, the study of botany, plant cells, the plant cell and its environment, photosynthesis and respiration, classification, viruses, Monera, bacteria, blue green algae, fungi, photosynthetic Protista, algae, bryophytes, vascular plants, reproduction in flowering plants, identification of flower plants, roots, stems and leaves of flowering plants; plant water relationships, growth regulators in plants, environmental factors, and economic botany.

Mathematics of Finance

Concentrates on the mathematics necessary to understand and make informed decisions related to personal finance. The mathematics in the course will be based on many topics in prior courses; however, the specific applications will extend the student's understanding of when and how to use these topics.

Human Anatomy

Integrates the study of the structures and functions of the human body,. Rather than focusing on distinct anatomical and physiological systems (respiratory, nervous, etc.)I instruction should focus on the essential requirements for life. Areas of study include organization of the body; protection, support and movement; providing internal coordination and regulation; processing and transporting; and reproduction, growth and development.

Introduction to Research Methods

Emphasizes individual project research through student-designed experiments. This course includes exploration of data through surveys, sampling techniques using new research methods, and field studies culminating in a project for the North Springs Science and Engineering fair.

Forensic Science

Designed to build upon science concepts and to apply science to the investigation of crime scenes. It serves as a fourth year of science for graduation and may serve in selected Career Technology programs. Students will learn the scientific protocols for analyzing a crime scene, how to use chemical and physical separation methods to isolate and identify materials, how to analyze biological evidence and the criminal use of tools, including impressions from firearms, tool marks, arson, and explosives.

Genetics: A branch of biology, genetics deals with the study of heredity and patterns of inheritance. Composed of DNA, genes are the chemical molecules containing the code that determine structure and function of all living organisms. Long before the structure of DNA was identified, Gregor Mendel was able to lay the foundation of the laws, patterns, and predictability that govern traits and their inheritance. His work with common garden peas, used this knowledge and allowed mankind to improve the nature and quality of the food supply through selective breeding. Applications of Mendel's laws have led to a more comprehensive understanding of genetic disorders and their probability of being passed to successive generations. The focus of this course is the recognition that Mendelian genetic laws form the framework of inheritance and that from the perspective of human genetics these constructs can be applied.



PHYSICAL EDUCATION

Health

Explores the mental, physical, and social aspects of life and how each contributes to total health and well-being; emphasizes safety, nutrition, mental health, substance abuse prevention, disease prevention, environmental health, family life education, health careers, consumer health, and community health.

General Physical Education

Focuses on any combination or variety of team sports, lifetime sports, track and field events, aquatics/water sports, outdoor education experiences, rhythmic/dance, recreational games, gymnastics, and self-defense. Provides basic methods to attain a healthy and active lifestyle.

Personal Fitness

Provides instruction in methods to attain a healthy level of physical fitness. Covers how to develop a lifetime fitness program based on a personal fitness assessment and stresses strength, muscular endurance, flexibility, body composition and cardiovascular endurance. Includes fitness principles, nutrition, fad diets, weight control, stress management, adherence strategies and consumer information; promotes self-awareness and responsibility for fitness.

Weight Training

Introduces weight training; emphasizes strength development training and proper lifting techniques. Includes fitness concepts for developing healthy lifetime habits

Advanced Physical Conditioning

Enhances cardiovascular endurance, flexibility, muscular strength and endurance and body composition. Emphasizes self-management and adherence strategies.

Recreational Games

Introduces recreational games suitable for lifetime leisure activities; may include table tennis, shuffleboard, Frisbee, deck tennis, new games, horseshoes, darts and croquet. Emphasizes the rules of each game and the skills necessary to play.

9th - 12th Grade Students Electives VPA Magnet Only

PROGRAM	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Band	Inter./Adv. Band (M) and/or Inst. Masters/ Music Theory 1/Beg. piano	Int./Adv. Band (M) and/or Inst. Masters/ Music Theory 1/ AP Music Theory/ Beg Piano/ Music Technology 1	Int./Adv. Band (M) and/or Inst. Masters/ Music Theory 1/AP Music Theory/ Beg. Piano/ Music Tech 1	Adv. Band (M) and/or Inst. Masters/ Music Theory 1/ AP Music Theory/ Beg. Piano/ Music Tech 1
Choral Music	Ensemble (M) and/or Beg. Piano/ music theory 1	Ensemble (M) and/or Music Theory 1/ AP Music theory/ Beg piano/ music technology 1	Ensemble (M) and/or Music Theory 1/ AP Music Theory/ Beg. Piano/Music Tech 1	Ensemble (M) and/or AP Music Theory/beg. Piano/ Music theory 1/
Drama Acting	Acting I M and Tech I M/ Fundamentals of Theatre	Acting II M and Tech II M or Jazz II	Advanced Drama I M and Theatre Literature	Advanced Drama II and Advanced Drama II M
Drama Tech	Tech I M and Acting I/ Fundamentals of Theatre	Tech II M and 2D/3D Design	Tech III M and Theatre Literature	Tech IV M and Tech IV M
Visual Arts	S1: Intro to Art S2: Design Fundamentals	S1: Art History, or Art elective S2: Art History or Art Elective	S1: Art Elective or Advanced Placement S2: Art Elective or Advanced Placement	S1: Art Elective and Advanced Placement S2: Art Elective and Advanced Placement
Visual Arts Electives	Drawing & Painting 1-4 Sculpture 1-4 Photo Design 1-4 Ceramics 1-4 Art History 1-2 AP Drawing , AP 2D Design, AP 3D Design AP Art History			
Orchestra	Beg/Int./Adv./Mastery (M) and/or Music Theory 1,/Beg Piano/ Beg Chorus	Beg/Int./Adv./Mastery (M) and/or Beg Piano/ Beg Chorus/ Music Theory/AP Music Theory/ Music Tech 1	Beg/Int./Adv./Mastery (M) and/or Beg Piano/ Beg Chorus / Music Theory/AP Music Theory/ Music Technology 1	Beg/Int./Adv./Mastery (M) and/or Beg Piano/ Beg Chorus / Music Theory/AP Music Theory/ Music Technology 1
Dance	Modern Dance 1,2,3,4 *Placement dependent on level	Modern Dance 1,2,3,4 *Placement dependent on level	Modern Dance 1,2,3,4 *Placement dependent on level	Modern Dance 1,2,3,4 *Placement dependent on level
Dance Electives	Ballet 1M, 2M, 3M, 4M or Dance Composition (Auditions are every Spring)			

9th - 12th Grade Magnet Students Electives Math & Science Magnet Courses

SINGLE OR DUAL MAGNET PROGRAM REQUIREMENTS:

- ◇ Two (2) Math or Science Electives (Freshman and Sophomore Year)
- ◇ Four (4) AP Math and/or Science Courses (Junior and Senior Year)

Mandatory Freshman Math/ Science Course Offerings	<ul style="list-style-type: none"> • Intro to Research Methods (.5 credit) / Math of Finance (.5 credit)
Mandatory Sophomore Math/ Science Course Offerings	<ul style="list-style-type: none"> • Math of Finance (.5) / Genetics (.5 credit) • Intro to Research Methods (.5 credit) / Genetics (.5 Credit)
Science Elective Course Offerings	<ul style="list-style-type: none"> • Forensics • Introduction to Research Methods • Genetics
AP Science Course Offerings	<ul style="list-style-type: none"> • AP Physics 1 • AP Physics 2 • AP Chemistry • AP Biology • AP Environmental Science
AP Math Course Offerings	<ul style="list-style-type: none"> • AP Statistics • AP Calculus AB • AP Calculus BC • GA Tech Calculus • Distance Learning (College Course)
AP Courses Qualified for Math/ Science Magnet Credit	<ul style="list-style-type: none"> • AP Micro/Macro Economics • AP Psychology
Computer Science Pathway Course Offerings	<ul style="list-style-type: none"> • Intro to Digital Technology • Computer Science Principles • AP Computer Science
Applied Health Pathway Course Offerings	<ul style="list-style-type: none"> • Intro to Healthcare Science • Essentials of Healthcare Science • Allied Health & Medicine/Non-Invasive Diagnostic Technology



Incoming 9th Grade (Non Magnet) Students Elective Courses

Health & PE General Health (Semester 1/S2)	Computer Science/Web Development Pathway
Personal Fitness (Semester 1/S 2)	Introduction to Digital Tech-IDT
World Languages Level 1/Honors is a prerequisite for Level2/H	A/V Tech Film Pathway
Chinese 1 or Chinese 2, Chinese 2H	Audio-Video Tech and Film 1
French 1 or French 2, French 2H	Graphic Design Pathway
Latin 1 or Latin 2, Latin 2H	Intro to Graphics and Design
Spanish 1 or 2, Spanish 2H	JROTC/Leadership Pathway
	JROTC 1
Visual & Performing Arts	Allied Health –Medical Office or Non-Invasive Diagnostic Pathway
Beginning Women's' Chorus or Mastery 1 Men	Intro to Healthcare Science
Beginning Orchestra	
Music Theory 1	Humanities/Social Studies
Beginning or Intermediate Band	AP Human Geography
Jazz Dance I	AVID
Intro to Art (Semester 1 unless taken in 8th)	Study Skills
Design Fundamentals (S 2)	
Drawing & Painting 1 (S2)	
Ceramics (S2)	
Sculpture 1 (S2)	
Fundamentals of Theatre; Theater Tech 1 Acting 1 by audition	

10th Grade (Non Magnet) Students Elective Courses

Health & PE		Career Academy Pathways
General PE	Physical Conditioning	Computer Science/Web Development:
Personal Fitness	Recreational Games	Introduction to Digital Tech-IDT
Weight Lifting	Adv. Physical Conditioning	Computer Science Principals (pre-req IDT)
World Languages Level 1/Honors (H) is a pre-requisite for Level2/H		A/V Tech Film Pathway:
Chinese 1, Chinese 2 or 2H, Chinese 3 or 3H		Audio-Video Tech and Film 1
French 1, French 2 or 2 H, French 3 or 3H		Audio-Video Tech and Film 2
Latin 1, Latin 2 or 2H or Latin 3H		Graphic Design Pathway:
Spanish 1, Spanish 2 or 2H, Spanish 3 or 3H		Intro to Graphics and Design
		Graphic Design and Production
Visual & Performing Arts		JROTC/Leadership Pathway:
Modern Dance 1, 2, 3, or 4		JROTC 1
Jazz Dance 2 (students who are only able to take 1)		JROTC 2
Advanced or Intermediate Band Brass, Woodwind and Percussion Masters		Allied Health –Medical Office or Non-Invasive Diagnostic Pathway:
Beginning Piano		Introduction to Healthcare Science
Music Technology 1		Essentials of Healthcare
Music Theory 1 Chorus –Ensemble Orchestra– Beg/Int/Adv/Mastery		Accelerated Entrepreneurship Pathway: Introduction to Business & Technology/Legal Environment of Business combined course
Acting II Tech Theater II		
Art History (1-2) Drawing & Painting (1, 2, 3, 4)		Humanities/Social Studies:
Photography		Yearbook
Ceramics		Literary Magazine
Sculpture		Newspaper
Printmaking		
AP Studio Art Drawing , AP 2D Design, AP 3D Design		

11th Grade (Non Magnet) Students Elective Courses

Health & PE	Career Academy Pathways
General PE Physical Conditioning	Computer Science/Web Development:
Personal Fitness Recreational Games	Introduction to Digital Tech-IDT
Weight Lifting Adv. Physical Conditioning	Computer Science Principals (pre-req IDT)
World Languages Level 1/Honors is a pre-requisite for Level2/H	A/V Tech Film Pathway:
Chinese 1, Chinese 2 or 2H, Chinese 3 or 3H	Audio-Video Tech and Film 1
French 1, French 2 or 2 H, French 3 or 3H, French 4 H	Audio-Video Tech and Film 2
Latin 1, Latin 2 or 2 H, Latin 3H or Latin 4H	Graphic Design Pathway:
Spanish 1, Spanish 2 or 2 H Spanish 3 or 3H, Spanish 4H	Intro to Graphics and Design
Visual & Performing Arts	Graphic Design and Production
Modern Dance 1, 2, 3, or 4	JROTC/Leadership Pathway:
Jazz Dance 2 (students who are only able to take 1)	JROTC 1, JROTC 2 or JROTC 3
Advanced/ Intermediate Band	
Brass, Woodwind and Percussion Masters (1,2,3, or 4) Beginning Piano or Piano Master	Allied Health –Medical Office or Non-Invasive Diagnostic Pathway:
Music Theory 1; AP Music Theory	Introduction to Healthcare Science
Music Technology 1	Essentials of Healthcare
Orchestra– Beg/Int/Adv/Mastery Chorus –Ensemble	Allied Health & Medicine or Non-Invasive Diagnostic Technology
Advanced Drama I Theater Literature Tech Theater 2, 3	Accelerated Entrepreneurship Pathway: Intro to Business & Technology/ Legal Environment of Business
Art History Drawing & Painting (1-4) Photography (1-4)	Entrepreneurial Ventures Work-Based Learning
Ceramics (1-4)	Humanities/Social Studies:
Sculpture (1-4)	Yearbook
Printmaking 1, 2	Literary Magazine
AP Drawing , AP 2D or AP 3D Design	Newspaper

12th Grade (Non Magnet) Students Elective Courses

Health & PE		Career Academy Pathways
General PE	Physical Conditioning	Computer Science/Web Development:
Personal Fitness	Recreational Games	Introduction to Digital Tech-IDT
Weight Lifting	Adv. Physical Conditioning	Computer Science Principals (pre-req IDT) Web Development AP Computer Science
World Languages:		A/V Tech Film Pathway:
Chinese 2 or 2Honors , Chinese 3 or 3H		Audio-Video Tech and Film 1
French 2 or 2 Honors, French 3 or 3H, French 4 H		Audio-Video Tech and Film 2 or 3
Latin 2 or 2Honors, Latin 3H, Latin 4H		Graphic Design Pathway:
Spanish 2 or 2 Honors. Spanish 3, 3H or Spanish 4H		Graphic Design and Production
Visual & Performing Arts		Advanced Graphic Design
Modern Dance 1, 2, 3, or 4		JROTC/Leadership Pathway:
Jazz Dance 2 (students who are only able to take 1)		JROTC 1, JROTC 2 ,
Advanced/ Intermediate Band		JROTC 3 or JROTC 4
Brass, Woodwind and Percussion Masters (1,2,3, or 4) Beginning Piano or Piano Master		Allied Health/Medical Office or Non-Invasive Diagnostic Pathway:
Orchestra -Beg/Int/Adv/Mastery		Essentials of Healthcare
Music Theory 1 AP Music Theory		Allied Health & Medicine or Non-Invasive Diagnostic Technology
Music Technology 1		Medical Services Internship
Chorus –Ensemble Advanced Drama I Theater Literature		Accelerated Entrepreneurship Pathway: Intro to Business & Technology/ Legal Environment of Business
Tech Theater 3 Art History Drawing & Painting (1-4)		Entrepreneurial Ventures Work-Based Learning
Photography (1-4)		Humanities/Social Studies:
Ceramics (1-4), Sculpture (1-4)		Yearbook
Printmaking (1-4)		Literary Magazine
AP Drawing , AP 2D Design or AP 3D Design		Newspaper