

GRADUATION REQUIREMENTS

SUBJECT	GRADE	CREDIT	CLASS	OPTIONS
English	9	1.0	English I	Standard or Honors
	10	1.0	English II	Standard, Honors, AP
	11	1.0	English III	Standard, Honors, AP, Dual Enrollment, IB
	12	1.0	English IV	Standard, Honors, AP, Dual Enrollment, IB
Math	9	1.0	Integrated Math I	Standard or Honors
	10	1.0	Integrated Math II	Standard or Honors
	11	1.0	Integrated Math III	Standard or Honors
	12	1.0	4 th Math* (see options on back)	Standard or some Honors or IB
Social Studies	10	1.0	World History & Geography	Standard, Honors, AP
	11	1.0	US History & Geography	Standard, Honors, AP, IB HOA
	12	1.0	Government (0.5) & Economics (0.5)	Standard (unless in IB HOA)
	Varies	0.5	Personal Finance	Standard or some Dual Credit
Science	Varies	1.0	Biology	Standard or Honors
	Varies	1.0	Chemistry or Physics	Standard or Honors
	Varies	1.0	3 rd Lab Science (ex. Physical Sci)	Standard or some Honors or IB
World Language	Varies	1.0	Spanish I or French I	Standard
	Varies	1.0	Spanish II or French II (must be same)	Standard or Honors
Fine Art	Varies	1.0	Fine Art	Standard or IB
Wellness & PE	Varies	1.0	Lifetime Wellness	Standard
	Varies	0.5	Physical Education	Standard
Focused Pathway	10	1.0	Pathway I (Career Tech Ed)	Standard or some Dual Credit
	11	1.0	Pathway II (Career Tech Ed)	Standard or some Dual Credit
	12	1.0	Pathway III (Career Tech Ed)	Standard or some Dual Credit
Electives	Varies	5.5	Electives	Varies

**Students must be enrolled in a math class every year, even if they have already earned 4 credits in math.*

ADVANCED ENGLISH OPTIONS (not including IB)

AP ENGLISH LANGUAGE AND COMPOSITION: This course follows the College Board guidelines for a rigorous course of study equivalent to a freshman English course in a college or university. The curriculum focuses on helping students in becoming skilled readers of text written in a variety of periods, disciplines and rhetorical contexts. The course should also provide the practice and helpful criticism necessary to make students flexible writers who can compose in a variety of modes and for a variety of purposes. The course will prepare students to demonstrate success on the TCAP English III End of Course Assessment and the TCAP Writing Assessment. Students will be encouraged to take the Advanced Placement Test.

DUAL ENROLLMENT ENGLISH: This course is taught following the standards for English at Nashville State Community College. The course is taught at Hillsboro and students can earn high school credit for English III and English IV as well as college English credit. The course involves in-depth analysis of various texts and significant writing assignments. Note that students must take and pass a placement test at Nashville State in order to be allowed to take this class.

ADVANCED SOCIAL STUDIES OPTIONS (not including IB)

AP US HISTORY: The AP program in U.S. History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should 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. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Students will be administered an end-of-course exam which counts a percentage of the student's grade. The course will fulfill the U.S. History requirement for graduation.

AP HUMAN GEOGRAPHY: The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. On successful completion of the course, the student should be able to: use and think about maps and spatial data, understand and interpret the implications of associations among phenomena in places, recognize and interpret at different scales the relationships among patterns and processes, define regions and evaluate the regionalization process, and characterize and analyze changing interconnections among places. The course will fulfill the World Geography requirement for graduation.

SCIENCE OPTIONS (not including IB)

CHEMISTRY I (STANDARD): Students will study atomic structure, matter & energy, interactions of matter, and technology & engineering. Students should explore chemistry through inquiry, hands-on laboratory investigations, individual studies and group activities. Their study should include both qualitative and quantitative descriptions of matter, and the changes that matter undergoes. Students should practice the necessary precautions for performing safe inquiries and activities, and appreciate the risks and benefits of producing and using chemical substances. Chemistry is required for all medical and health-oriented careers, as well as careers involving agriculture, engineering and homemaking. All students enrolled in the course will be administered the Chemistry End of Course test. The test will count as a portion of the final grade for the course.

CHEMISTRY I (HONORS): Chemistry I Honors deals more extensively with the abstract concepts of chemistry and incorporates a more extensive practice of higher order thinking skills and science process skills. Students will study atomic structure, matter & energy, interactions of matter, and technology & engineering. Honors courses must substantially exceed the content standards and learning expectations of regular courses. Honors courses must incorporate projects, open-ended investigations, technology, and problem solving experiences plus other additional components. Students should explore chemistry through inquiry, hands-on laboratory investigations, individual studies and group activities. Their study should include both qualitative and quantitative descriptions of matter, and the changes that matter undergoes. Students should practice the necessary precautions for performing safe inquiries and activities, and appreciate the risks and benefits of producing and using chemical substances. Chemistry is required for all medical and health-oriented careers, as well as careers involving agriculture, engineering and homemaking. All students enrolled in the course will be administered the Chemistry End of Course test. The test will count as a portion of the final grade for the course.

PHYSICS (HONORS): Physics, Honors incorporates a more extensive practice of higher order thinking skills and science process skills. Students will study Physics in more depth, as honors courses must substantially exceed the content standards and learning expectations of regular courses. Honors courses must incorporate projects, open-ended investigations, technology, and problem solving experiences plus other additional components. Physics is a laboratory course that deals with the relationship between matter and energy, and how they interact. Students will study mechanics; thermodynamics; waves and sound; light and optics; electricity and magnetism; and atomic and nuclear physics. The major emphasis is concept development through inquiry learning and hands-on laboratory experiences, and concept reinforcement through application activities.

NUTRITION SCIENCE: This full-year course creates interest in science by focusing on the practical application of scientific concepts and processes to nutrition and foods. It includes the science of the production, processing, preparation, evaluation and utilization of foods. Students use scientific methods in laboratory experiments to facilitate the understanding of the human body, food and nutrition and science.

4th MATH OPTIONS (not including IB)

BRIDGE MATH: Bridge Math is a course intended to build upon concepts taught in previous courses to allow students to gain a deeper knowledge of the real and complex number systems as well as the structure, use, and application of equations, expressions, and functions. Functions emphasized include linear, quadratic and polynomial. Students continue mastery of geometric concepts such as similarity, congruence, right triangles, and circles. Students use categorical and quantitative data to model real life situations and rules of probability to compute probabilities of compound events. This course is designed for students who need to refresh core mathematics skills prior to further study. It is recommended that students who have not scored at least a 19 on the ACT assessment take this course to be better prepared for post-secondary study. The Bridge Math Course is intended to provide students with an opportunity to revisit concepts from previous math courses while making connections and solving real world word problems.

APPLIED MATH CONCEPTS: Applications and modeling using mathematics are the primary foci of this course. During the course of the year, students will be exposed to mathematical concepts such as linear programming, investigative logic, combinatorial reasoning, and the normal distribution. Students will engage in a study of contextual situations where mathematical principles are applied to make informed decisions.

STATISTICS: Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The major themes in Statistics include: interpreting categorical and quantitative data, conditional probability and other rules of probability, using probability to make decisions, and making inferences and justifying conclusions.

PRE-CALCULUS WITH TRIGONOMETRY (HONORS): Pre-Calculus with Trigonometry deals with the topics of vectors, analytic geometry, theory of equations, logic and limits. Included in the course are in-depth studies of the conic sections, higher degree equations, sequences and series, and the fundamental theorem of algebra. This course also includes the study of the properties of the trigonometric functions, their graphs and their applications to various mathematical situations including the solution of triangles. Trigonometry has applications in surveying, navigation, construction work and is particularly essential for higher level courses in mathematics and physics. Extended group activities, individual projects and portfolios are incorporated to provide additional measures of student progress.

ELECTIVE CHOICES: PLEASE FILL OUT THE TABLE BELOW

Below are the electives you will select for next year. Please look them over and rank them 1 – 5 for your top 5 choices. **Write 1 next to your top choice, write 2 by your 2nd choice, and so on.** Classes with an asterisk by it require an audition or interview with the teacher.

ELECTIVES: Please rank your top 5 electives by writing 1-5 on the line by the class. *Indicates audition/interview required. Student must see teacher BEFORE Feb. 15th				
FINE ARTS 1 required	<u>VOCAL MUSIC</u> _____ Mixed Choir I/II _____ Women’s Choir I/II* _____ Chamber Choir III/IV* _____ Pops Ensemble III/IV*	<u>INSTRUMENTAL MUSIC</u> _____ Concert Band I-IV* _____ Orchestra I-IV* _____ Classical Guitar I _____ Classical Guitar II _____ Wind Ensemble I-IV* _____ IB Music I SL/HL*	<u>THEATER & PERFORMING ARTS</u> _____ Theater Arts I _____ Drama Acting* _____ Theater Production* _____ IB Theater Arts I SL/HL* _____ IB Theater Arts II SL/HL*	<u>VISUAL ARTS</u> _____ Visual Art I _____ Painting/Drawing _____ Sculpture/Ceramics _____ Journalism Lab* (Yearbook) _____ Digital Art/Design _____ Photography _____ IB Visual Art I SL/HL _____ IB Visual Art II SL/HL*
OTHER ELECTIVES	<u>OTHER ELECTIVES</u> _____ Psychology/Sociology _____ African American Studies (<i>full year</i>) _____ Cinema Studies (<i>full year</i>) _____ Computer Apps (<i>full year</i>) _____ Journalism Pub* (Newspaper) _____ Contemporary Issues/Speech & Debate	<u>IBCP REQUIRED CLASSES</u> <input type="checkbox"/> IB Personal & Prof Skills I <input type="checkbox"/> IB Personal & Prof Skills II <u>IB ELECTIVES</u> _____ IB Business Mgmt. I SL/HL _____ IB Business Mgmt. II SL/HL _____ IB Psychology I SL/HL _____ IB Psychology II SL/HL _____ Independent Study (IBCP 11 th & 12 th only, if schedule allows)	<u>AVID</u> <input type="checkbox"/> AVID II* <input type="checkbox"/> AVID IV* <input type="checkbox"/> AVID III* <input type="checkbox"/> AVID Tutor* <u>PHYSICAL EDUCATION</u> (0.5 required) _____ Physical Education I-II _____ Outdoor Ed/Life Activities (elective only) _____ Weight Training I-IV (elective only)	<u>SPECIAL ACADEMY ELECTIVES (11th & 12th grade only)</u> <input type="checkbox"/> Retail Operations* [Burro Brew] (USCCUAIBC) <input type="checkbox"/> Banking & Finance* [Credit Union] (USCCUAIBC) <input type="checkbox"/> Accounting II (USCCUAIBC) <input type="checkbox"/> St. Thomas Scholars (Senior TCS elective in AGHS) <input type="checkbox"/> DE Anatomy & Physiology/DE Medical Terminology (AGHS elective for seniors that haven’t previously taken it) <input type="checkbox"/> Nutrition Science (Junior or Senior SHP pathway elective in AGHS)

VOCAL MUSIC

Mixed Choir This course will help the student develop music reading skills, and will include ear training and sight singing. After school and/or evening performances may be required.

Women’s Choir The emphasis is placed on voice development, music reading, ear training and sight singing. The literature studied is written for female voices in Soprano I, Soprano II, Alto and other variations suitable for the developing female voice. This course may require after school and/or evening performances.

Chamber Choir This course gives the advanced singer an opportunity to perform unaccompanied literature written predominantly in the 16th and 17th centuries that has a complex polyphonic nature. The literature to be studied was specifically written for madrigal groups. After school and/or evening performances may be required.

Pop Ensemble This course is for the student who has had prior instrumental or vocal training. It is designed for those students who have an interest in performing in the pop music genre. Music theory and music history, as well as improvisation will be covered in this course. After school and/or evening rehearsals and performances may be required.

INSTRUMENTAL MUSIC

Concert Band Concert band is designed for the wind or percussion instrumentalists to improve technique and overall musicianship. In addition to improving playing and performance skills, the student will be required to study historical, multicultural and interdisciplinary perspectives as it relates to music as well as form and style. Music theory will be incorporated into daily lessons and will be tested in a written and performance format. This is a performance-based course and may require students to participate in after school and/or evening rehearsals and performances.

Orchestra This course is designed for students who can demonstrate competence on their chosen string instrument. Literature of classical and contemporary composers is studied and performed. Students will cover some music theory and music history while becoming more proficient technically and musically. This is a performance-based course and will require After school and/or evening rehearsals and performances may be required.

Classical Guitar I This course is designed for the beginning student wishing to learn the basic fundamentals of guitar playing. Through the use of first position chords, the student will be able to accompany himself with folk songs and melodies. Students will need their own guitars for practice. This course also incorporates elements of music theory and music history. After school and/or evening performances may be required for this course.

Classical Guitar II This course is designed for the student wishing in-depth study in reading and the plectrum (with pick) approach to playing. Some emphasis will be placed on further development of the bar chords. Students will need their own guitars for practice at home. This course also incorporates elements of music theory and music history.

Wind Ensemble This course is for a highly select group of advanced wind and percussion musicians that study and perform the best of music written or arranged for wind ensembles and concert bands. In addition to improving playing and performance skills, the student will be required to study historical, multicultural and interdisciplinary perspectives as it relates to music, as well as form and style. Music theory will be incorporated into daily lessons and will be tested in a written and performance format. This is a performance-based course and will require students to participate in After school and/or evening rehearsals and performances may be required.

THEATER & PERFORMING ARTS

Theatre Arts I This course is a study of the elements that comprise the total "theater experience": the script, types of drama, acting, sets, props, lighting, costumes and makeup.

Drama: Acting This course involves students in various aspects of acting improvisation, pantomime, voice and diction, character development and allows for opportunities to participate in scenes, plays and readers theater.

Theater Production This course is designed to provide experience in directing, producing, stage design and construction. **Prereq: Theatre Arts**

CONTINUED ON BACK

VISUAL ARTS

Visual Arts I This elective course offers students studio experiences in drawing, painting, and two- and three-dimensional design with an emphasis on art elements. It incorporates the National Standards for Art Education: understanding and applying media, techniques and processes; using knowledge of structures and functions; choosing and evaluating a range of subject matter, symbols and ideas; understanding the visual arts in relation to history and cultures; reflecting upon and assessing the characteristics and merits of their work and the work of others; and making connections between visual arts and other disciplines.

Painting/Drawing The **Painting** semester course is an in-depth studio course in which the student explores qualities of painting including acrylic and watercolor, and studies color theory. The focus will be on the human figure, land and/or seascapes, still life and/or fantasy. The **Drawing** semester course allows the student to explore qualities of graphite, pastels, chalks, ink and colored pencils. The focus will be on the human figure, landscapes, still life and/or fantasy.

Sculpture/Ceramics This course is an in-depth studio course in which the student explores creating expressive forms from wood, plaster, clay, plastic or metal. Approaches in direct carving, casting and additive construction are options open to the student.

Journalism Laboratory (YEARBOOK) This course provides a study of the basic principles of journalistic reporting and writing including the aims, organizations and arrangements of publications and practice in all major phases of journalistic writing.

Digital Arts/Design This course provides a foundation in visual communication concepts and design strategies. Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Along with study of design principles, conceptualization processes and techniques, students will explore various applications of design through extensive study of typography, style, composition, visual elements, color, creative technical software and various problem-solving tasks, that encourages higher order thinking. Exploration of career opportunities, development of leadership, teamwork, collaborative and technical skills requisite in many aspects of life and industry which are creative and multi-faceted will be developed.

Photography This is a studio course in which the student explores the qualities of single lens reflex photography. Art photography is emphasized with attention given to the principles of art. Students will have the opportunity to shoot, develop and print black and white photographs. Darkroom techniques will be examined in depth when available.

OTHER ELECTIVES

Psychology/Sociology In **Psychology** students learn the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system in human and non-human animals, the processes of sensation and perception, and life span development. Students will study social cognition, influence, and relations. Students will examine social and cultural diversity and diversity among individuals. Students will study memory, including encoding, storage, and retrieval of memory. Students will also study perspectives of abnormal behavior and categories of psychological disorders, including treatment thereof. Students will elaborate on the importance of drawing evidence-based conclusions about psychological phenomena and gain knowledge on a wide array of issues on both individual and global levels. Throughout the course, students will examine connections between content areas within psychology and relate psychological knowledge to everyday life. Students will explore the variety of careers available to those who study psychology. In **Sociology** students will explore the ways sociologists view society, and also how they study the social world. In addition, students will examine culture, socialization, deviance and the structure and impact of institutions and organizations. Also, students will study selected social problems and how change impacts individuals and societies.

African-American Studies In this elective course students will examine the life and contributions of African Americans from the early 1600's through modern America. Students will explore the influence of geography on slavery and the growth of slavery on the American continent. Students will consider urban and rural African American communities and institutions in the North and South leading up to and during the Civil War. Students will investigate the rise and effects of Jim Crow and trace the impact of African American migration through the early twentieth century. Students will explore the impact of the Harlem Renaissance and the conditions and contributions of African Americans during the Great Depression and World War II. Students will examine the successes and failures of the Civil Rights Movement and consider the contemporary issues confronting African Americans.

Cinema Studies This course is designed to study the history of cinema to the creating of cinema. Students watch films, then analyze and discuss them in various ways.

Computer Applications This is a foundational course intended to teach students the computing fundamentals and concepts involved in the proficient use of common application software. Upon completion of this course, students will gain basic proficiency in word processing, spreadsheets, databases, and presentations. In addition, students will have engaged in key critical thinking skills and will have practiced ethical and appropriate behavior required for the responsible use of technology.

Journalism Publications (NEWSPAPER) Formal classroom study and experience in the production of school publications, newspapers, and literary magazines form the basis for this course.

Contemporary Issues/Speech & Debate In **Contemporary Issues**, students study various dynamic issues facing today's society enabling them to discover their values and responsibilities as citizens in that society. The course will utilize six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different learning methods to research, discuss, debate and formulate opinions on those contemporary issues. **Speech & Debate** is designed to teach the general principles of debate and provide experiences in informal and formal debating. Experiences often include training of debaters for competition.

PHYSICAL EDUCATION

Weight Training This course is designed to teach students the safe and effective techniques of weight training. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Strength training programs will be developed to meet individual student needs. Students will develop, assess and modify personal fitness plans for weight/strength training. The benefits of weight training and its effects on the body will be emphasized. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.