

GARRISON FOREST SCHOOL

300 GARRISON FOREST ROAD • OWINGS MILLS, MARYLAND 21117



UPPER SCHOOL CURRICULUM GUIDE 2021-2022

GARRISON FOREST SCHOOL'S MISSION AND PHILOSOPHY

At Garrison Forest School, we prepare our students in and out of the classroom to thrive in a complex, changing world by

- Challenging them to strive for academic excellence and to grow into informed, independent and creative thinkers;
- Cultivating an authentic and resilient sense of self, grounded in respect and integrity;
- Creating a diverse and inclusive community built on a spirit of caring;
- Inspiring young women to lead and to serve with passion, purpose and joy.

Our motto informs our mission: *Esse Quam Videri*—"To Be Rather Than To Seem."

STATEMENT OF RESPECT

The Garrison Forest School community is deeply committed to equity, honesty, kindness and respect as part of the educational experience. To this end, we

- Celebrate diversity both within our community and our curriculum;
- Support the well-being of all people;
- Build the self-esteem of all people;
- Promote understanding among all people.

We recognize the dignity and worth of all individuals. To protect their rights, we confront bias, prejudice and discrimination. Garrison Forest does not condone any behavior which is inconsistent with these tenets. We believe that it is unacceptable for our spoken and written language and behavior to demean anyone's physical characteristics, as well as anyone's ethnic, gender, personal, racial, religious or sexual identities. We, as individuals, must take responsibility for our words and deeds and respect all people.

GARRISON FOREST'S SCOPE OF PROGRAMS

Garrison Forest School offers an exceptional elementary, middle and high school program for girls, beginning in Kindergarten. For grades 8-12, Garrison Forest also has a regional, national and international boarding program. The coed Preschool begins with a Parent-Toddler program and has classes for two-, three-, and four-year-old boys and girls. For more information about the Preschool, Lower School, Middle School, Upper School or boarding programs, please visit www.gfs.org or contact the Admission Office at (410) 559-3111.

Table of Contents

<u>Mission and Philosophy</u>	p.2
<u>Graduation Requirements</u>	p.4
<u>Sample Course Selections</u>	p.6
<u>AP Program & Requirements</u>	p.7
<u>GFS Gateway Scholars Programs</u>	p.12
<u>Global Citizenship</u>	
<u>STEM</u>	
<u>Visual Art and Design Thinking</u>	
ACADEMIC OFFERINGS	
<u>Arts: Visual and Performing</u>	p.17
<u>Computer Science & Technology</u>	p.23
<u>Decision Making/Transitions</u>	p.25
<u>English</u>	p.26
<u>History & Social Sciences</u>	p.28
<u>Languages (Chinese, French, Latin, Spanish)</u>	p.34
<u>Mathematics</u>	p.41
<u>Physical Education, Athletics & Dance</u>	p.45
<u>Public Speaking</u>	p.48
<u>Science</u>	p.49
<u>Student Support</u>	p.53
<u>Online Courses</u>	p.53
<u>Programs outside of GFS</u>	p.56

THE CURRICULUM

Requirements for Graduation

Garrison Forest Upper School operates on a semester system. One credit is given for a full-year course; semester courses earn one-half ($\frac{1}{2}$) credit.

General Requirements:

- A minimum of 22 credits is required for graduation.
- In general, students take at least 5 academic courses each semester. In grade 9, students generally carry 6 academic credits. In grade 10, students generally carry $5\frac{1}{2}$ to 6 academic credits. In grades 11 and 12, students carry 5 to 6 academic credits.

Due to the demanding nature of our curriculum, students are limited to two AP courses in the junior year and three AP courses in the senior year (see AP placement guidelines, p. 9-13). Exceptions are considered by formal request on an individual basis. In order to graduate, seniors must remain in all courses in which they are enrolled at the end of the add/drop period of the semester in which the course begins.

Graduation Requirements:

English: 4 credits

History: 3 credits, one of which must be in World History II and one of which must be in United States History.

Recommendation: Students are encouraged to take 1 or more history electives in addition to their 3 core history courses.

Mathematics: 3 credits in grades 9, 10, and 11. Students must complete Algebra I, Geometry, and Algebra II. Students are required to take at least one math course each year in grades 9-12.

Science: 3 credits of laboratory science. Credits must include one biological, one chemical, and one physical science, one of which must be in grades 11 or 12.

Recommendation: Students are encouraged to complete Biology, Chemistry, and Physics before signing up for an advanced elective. Students interested in the WISE program are encouraged to develop comfort with computer programming through self-study, a computer science elective or summer course prior to or concurrent with WISE participation.

World Language: 3 credits* in one language through Level III.

Recommendation: Language students who complete 3 credits at the end of grade 10 are recommended to continue at least one language in grade 11.

**including credit for Level I, if completed during Middle School. At least two years of these credits must be completed during Upper School. International students for whom English is not their first language are exempt from this requirement, but may elect to take World Language courses.*

The Arts: 2 credits (minimum of 4 semesters); both Performing and Visual Arts must be represented in the Arts credits.

Physical Education: 6 points (seasons) before the conclusion of junior year, equivalent to 2 credits

Digital Thinking: Non-credit; required in grade 9 (Semester course)

Dialogue & Debate: Non-credit, required in grade 9 (Semester course)

Decision Making: Non-credit, required in grades 9 and 11. (Full year course)

SAT Prep/Career Explorations Unit: Non-credit, required in grade 10. (Semester course)

Transitions: Non-credit, required in grade 12. (Full year course)

Course Load Exceptions

Students seeking to enroll in a course overload (more than 6 courses, or more than the maximum number of AP classes) must submit a formal written request for permission, which may or may not be granted.

Key considerations for whether than request may be approved include:

- a clear rationale for how the proposed courses fit into the student's long-range interests and goals;
- evidence that the student has been consistently demonstrating the need for academic challenge beyond the normal course load;
- regular attendance and consistency in meeting academic, personal, and co-curricular obligations in a timely way.

Students requesting a reduction in the normal course load must discuss their specific needs with their advisor and the Dean of Academic Development, who may solicit the input of the College Counseling Office, the School Counselor, and the Head of Upper School to gauge the appropriateness of the request and the long range implications for the student's program. Possible rationales for reduced course load are:

- Language-Based Learning Disability qualifying for a foreign language waiver
- Medical limitations

Documentation is required for all rationales; students must still meet the minimum credits for graduation and complete required coursework, and a 4-Year Plan must be developed and submitted, outlining the proposed trajectory.

Independent Study

A qualified student may pursue an independent study course with a GFS teacher to engage in an enriched, in-depth course in a particular discipline, either because she has already mastered the basic material in another course and there is no higher level course to take, or because unusual talent and ability warrant additional challenges not provided by the School's course offerings. The following requirements govern independent study:

1. The decision to request an independent study course must be a joint one between the student and the teacher with whom the student wishes to study, in consultation with her advisor. The student and her independent study teacher must prepare a comprehensive written study plan and submit it to the department head involved, to the Head of the Upper School and to the Dean of Academic Development for approval during the yearly course selection process.
2. The Head of the Upper School and the Dean of Academic Development will evaluate the study plan and determine whether to allow the independent study course for the student.
3. In addition to regular tutorials, readings and reading notes, the student shall undertake a major project or research paper in her area of concentration, which will be presented to a chosen audience.
4. The standard add/drop requirements apply to the independent study course.

COURSE SELECTION SAMPLES

These summaries are designed to help students visualize a few of the many program combinations. Students should work closely with their academic advisors and the college counseling department when planning their schedule in order to explore all options both to meet their graduation requirements and to include their extracurricular interests.

Grade 9 - Students in grade 9 generally carry 6 academic credits.

<u>Core Courses:</u>	English I	(1 credit)
	Mathematics	(1 credit)
	Language	(1 credit)
	Biology	(1 credit)
	Art Foundations	(1 credit)
	<u>Choose one of the following two courses:</u>	
	Additional Language	(1 credit)
	World History I	(1 credit)
	<u>Plus:</u>	
	Physical Education participation	(1/3 credit / season)
	Decision Making	(non-credit)
	Digital Thinking	(non-credit)
	Dialogue & Debate	(non-credit)

Grade 10 - Students in grade 10 generally carry 5 ½ to 6 academic credits.

<u>Core Courses:</u>	English II	(1 credit)
	Mathematics	(1 credit)
	Language	(1 credit)
	World History II	(1 credit)
	Chemistry	(1 credit)
	<u>And:</u>	
	Electives	(various credits)
	<u>Plus:</u>	
	Physical Education participation	(1/3 credit / season)
	SAT Prep/Career Exploration	(non-credit)

Grade 11 - Students in grade 11 carry 5 ½ to 6 academic credits. Students must complete at least one year of

laboratory science in either grade 11 or 12.

<u>Core Courses:</u>	English III	(1 credit)
	Mathematics	(1 credit)
	History	(1 credit)
	Science	(1 credit)
	Language	(1 credit)
<u>And:</u>		
	Electives	(various credits)
<u>Plus:</u>		
	Physical Education participation	($\frac{1}{3}$ credit / season)
	Decision Making II	(non-credit)

Grade 12 – Students must carry a minimum of 5 full unit courses each semester. Students must complete one year of laboratory science in either grade 11 or 12. Enrollment is capped at 6 courses per semester.

<u>Core Courses:</u>	English IV	(1 credit)
	Mathematics	(1 credit)
	History	(1 credit)
	Language	(1 credit)
	Science	(1 credit)
<u>And:</u>		
	Electives	(various credits)
<u>Plus:</u>		
	Transitions	(non-credit)

THE ADVANCED PLACEMENT PROGRAM

What is the Advanced Placement Program?

The Advanced Placement Program (AP[®]) enables students to pursue college-level studies while still in high school through enrollment in AP courses. The program is administered by the College Board, which determines the curricular goals and course content for all AP courses. The College Board approves schools that wish to offer AP courses and conducts regular “audits” at schools to assure that AP courses meet requirements. AP courses are rigorous, fast-paced, and require students to master content and skills thoroughly and independently. Based on their performance on formal AP Exams administered in May by the College Board, students may earn college credit, advanced placement in college, or both. Each college has its own policy about AP courses and scores. More than 3,600 colleges and universities annually receive AP Exam scores and over 90% of 4-year colleges in the U.S. provide credit and/or advanced placement for qualifying scores. AP exams are graded on a scale of 1 through 5, with a 3 being the minimum grade generally required to support advanced placement in college.

Who should take AP courses?

Since AP courses are college-level courses offered in high school, they are appropriate for students ready to tackle college-level work and who meet certain criteria. At Garrison Forest School, specific academic eligibility standards have been established for each AP course offered by the School in order to ensure that students in AP courses have the academic preparation necessary to participate with success. In

addition, other considerations are weighed by the School in determining placement in AP courses.

Students who meet the academic requirements for placement in an AP course should also:

- be passionate about the subject matter and highly motivated to meet the demands of the course;
- possess excellent academic and study skills, the capacity to work independently, and an exceptional work ethic;
- be highly capable abstract, critical, and independent thinkers;
- be able to balance the demands of AP coursework with other academic and non-academic commitments and goals.

The competitiveness of the college application process, a desire to keep up with classmates, and other factors sometimes contribute to a student's interest in enrollment in an AP course. While such considerations are not necessarily misplaced, they are not in and of themselves sufficient for placement in an AP course. Students are ill-served by placement in demanding courses that do not match their interests or their strengths. The breadth and depth of the Garrison Forest School curriculum is such that many course options are available to students apart from AP offerings.

Students and parents need to be prepared to be guided by the School's recommendations regarding the appropriateness of AP coursework and weigh multiple factors carefully in assessing best options.

Important to note:

- The rigor of AP courses may result in a student achieving a lower grade than what she would earn in a non-AP course.
- The intensive time-demands of AP courses often stretch even the most gifted and disciplined students, resulting in trade-offs on other fronts, including grades in other courses and time available for other commitments and interests.

Because of the demands of AP coursework, students are counseled to consider these courses carefully and to balance their other course selections accordingly. Our most rigorous curriculum includes 2 AP courses in the junior year and 3 AP courses in the senior year. This level of rigor is communicated to colleges as our most challenging. Exceptions to these limits are considered only by formal written request on an individual basis (see p. 5).

The AP Enrollment Process at Garrison Forest School

- Early in their time in the Upper School, students should begin to work with their advisors to develop their year-by-year course plan leading to graduation. Students are encouraged to discuss their interest in AP coursework with their advisors. Students and parents are cautioned, however, that indicating a desire for an AP course on a student's four-year-plan course outline does not guarantee that the student will be recommended for the AP course(s).
- As they move through their sophomore year, students interested in specific subject areas in which AP courses are offered should begin to talk more specifically with their advisors and teachers in those subject areas about their interest. Often, subject teachers can provide students with valuable feedback regarding the student's academic strength in the subject, which students can use in discussion with their advisors about potential AP coursework options.
- Placement in an AP course is granted through departmental permission. Departments meet prior to course registration to determine appropriate placements for students for the next academic year. In most instances, students recommended for AP courses are identified at this time. In some instances, the Department may elect to monitor a student's progress in the 2nd semester before

making an AP placement recommendation.

- Departments consider a range of factors in determining AP placement, including academic performance to date in the subject and in other relevant disciplines, feedback from teachers, the student's intellectual and personal preparedness for college-level work, the student's commitment and interest in AP-level study, and the student's ability to manage the workload.
- Students who have been recommended for AP placement will be informed by their advisor during the course selection process. Students who have not been recommended, but who have an interest, should speak with the department chair to determine whether the department will consider placement.
- Enrollment in an AP course for the next academic year is contingent upon the student sustaining her academic effort and performance over the full academic year prior to AP enrollment. A department may revoke the AP course placement recommendation of a student who does not maintain overall academic performance, grades and effort consistent with AP course placement.

Expectations regarding AP Course Study

By submitting the completed and signed course selection forms, students admitted to an AP course, along with their parents, indicate their understanding of the AP course expectations before enrollment in the course is finalized. Students and parents must be prepared for:

- Required summer work for the AP course;
- Required assignments and study over breaks;
- Required and recommended special activities, such as weekend field trips, related to the AP course;
- Required high level of independent learning and self-management;
- A course experience that mimics college-level study in content, rigor, pacing, and assessment.

Students are encouraged to work closely with their advisors and teachers to assess whether placement in an AP course is appropriate for them.

AP Course Costs

Taking the College Board's AP® course exam in May is required of all students enrolled in AP courses, and parents will be billed for the College Board's exam fee (approx. \$95) for each AP course for which their daughter is registered.

Garrison Forest School AP Guidelines

Department/AP Course	Year of Eligibility	Course Prerequisites	Required Grades for <i>consideration</i>
English: <i>AP English Literature</i>	Senior year	English III	B+ or higher in English III. B+ or higher English III essay average.
History: <i>AP U.S. History</i>	Junior year	World History II or World History II Honors	B+ or higher in World History II or II Honors
History: <i>AP Psychology</i>	Senior Year	US History or AP U.S. History	B+ or higher in AP U.S. History or A- in U.S. History
World Languages: <i>AP Chinese Language and Culture</i>	Junior or Senior year, or by permission	Chinese IV (H)	B or higher in Chinese IV (H)
World Languages: <i>AP French Language and Culture</i>	Junior or Senior year	French IV (H)	B or higher in French IV (H)
World Languages: <i>AP Latin</i>	Junior or Senior year	Latin III (H) or Latin IV (H)	B+ or higher in Latin III (H) or Latin IV (H). Success in the transition to reading Latin literature at the Latin III or Latin IV level.
World Languages: <i>AP Spanish Language and Culture</i>	Junior or Senior year	Spanish IV (H)	B or higher in Spanish IV (H)
Mathematics: <i>AP Calculus AB</i>	Senior year or junior year	Precalculus	A- or higher test average in Precalculus
Mathematics: <i>AP Calculus BC</i>	Senior year or junior year	Honors Precalculus	B+ or higher test average in Honors Precalculus
Mathematics: <i>AP Statistics</i>	Junior year or senior year	Precalculus	B+ or higher test average in Precalculus
Science: <i>AP Biology</i>	Senior or Junior year	<ul style="list-style-type: none"> ● Biology ● Chemistry ● May take Physics concurrently 	<ul style="list-style-type: none"> ● Grade average of B or higher in all previous science classes (or B- in Honors level science classes) ● Higher than a 650 SAT II Biology or Chemistry score if not at GFS for Biology or Chemistry or a placement test.

Science: <i>AP Chemistry</i>	Senior or Junior year	<ul style="list-style-type: none"> ● Honors Precalculus concurrently or as a junior ● Calculus or higher as a senior ● Chemistry 	<ul style="list-style-type: none"> ● B+ or higher in Precalculus; ● B or higher in all previous science classes ● A- or higher in Honors Chemistry; ● Test grade average of B+ or higher in Honors Chemistry; ● Test grade average of B+ or higher in Physics, if already taken; ● Higher than a 650 SAT II Chemistry score if not in Honors Chemistry or at GFS for Chemistry.
Science: <i>AP Environmental Science</i>	Senior year and Junior year by departmental recommendation	<ul style="list-style-type: none"> ● Biology ● Chemistry ● Algebra II 	<ul style="list-style-type: none"> ● B or higher in all previous science classes; ● B or higher average in English III; ● Test grade average of B or higher in Algebra II.
Science/Technology: <i>AP Computer Science A (Online only, 2020-2021)</i>	Senior, Junior, or Sophomore year by departmental recommendation.	Algebra II Honors prior or concurrently; Intro. to Computer Programming, Computer Programming II, or previous programming experience with instructor permission,	<ul style="list-style-type: none"> ● B+ or higher in Precalculus; ● Test grade average of B+ or higher in Honors Chemistry; ● Test grade average of B+ or higher in Physics, if already taken; ● B+ or higher in Algebra II; ● Previous programming experience
Science/Technology: <i>AP Computer Science Principles</i>	Senior, Junior, or Sophomore year by departmental recommendation.	Geometry	<ul style="list-style-type: none"> ● B grade or higher in Geometry or Geometry & Trigonometry Honors or ● B grade or higher in the most recent Math course above the level of Geometry with Algebraic Thinking

THE GFS GATEWAYS SCHOLAR PROGRAM

OVERVIEW:

For the student who identifies an interest in delving deeply into a particular field, participation in the Gateway Scholars program will provide unique opportunities to further tailor her Upper School experience both within and beyond the classroom. Students with a special interest in one of three focus areas will work with advisors and faculty to craft a distinct curricular and co-curricular path. Each Gateway track will create an immersive program designed to challenge them, enrich their experience and deepen their understanding. Students will connect with adult mentors through GFS Connect and off-campus partnerships and opportunities, and they will make use of the College Counseling process to explore and refine interests and bring their learning experience beyond the classroom and into the wider community.

Gateway Scholar tracks are available in three areas:

- Global Citizenship **GC**: - These courses are designated in the Curriculum Guide with this icon.
- STEM - **W** - These courses are designated in the Curriculum Guide with this icon.
- Visual Arts and Design Thinking

Each Gateway Scholar track consists of 1) in-depth coursework, 2) sustained experiential learning and engagement beyond the classroom, 3) the creation and presentation of a senior portfolio meant to encapsulate their learning and experiences throughout the program, and culminates in certification as Gateway Scholar in their chosen areas of focus.

GC: GLOBAL CITIZENSHIP TRACK

Required Coursework:

- World Language requirement:
 - As language proficiency builds cross-cultural dialogue, Global Scholars should complete up to or beyond Level 4 and/or the demonstration of bilingualism in one or more world languages.
- Global Gateways seminar
 - At least one semester is required
- 3 additional semesters of relevant elective coursework that build skills in global citizenship

Eligible courses (GC**)**

All World Language courses beyond the required Level III.

History and Social Science electives:

- Global Gateways
- Contemporary World Issues

- Economics
- Modern Africa
- Modern Latin America
- Stopping Genocide
- World Religions
- *Half the Sky*:
International Perspectives on Women, Gender, and Health
- AP Comparative Government * (Online only)

Art electives

- Art History

Science and Mathematics electives

- Biochemistry, Microbiology and Public Health Research (Honors) - Small World Initiative
- Engineering Design
- AP Environmental Science
- Statistics
- AP Statistics

In addition, students are encouraged to explore substantive co-curricular opportunities related to global scholarship that complement their classroom experience:

Global Citizenship Co-Curricular Activities

- Model U.N.
- Jenkins Fellows
- Service League
- Student Diversity Leadership Council
- Student affinity groups
- Language and culture clubs, organizations, and activities
- Kenya Connect
- Global travel opportunities

 **STEM TRACK**

Curricular STEM requirements:

- Four years of math and science
- At least one computer science course (semester or full-year)
- Participation in WISE (in Semester 1 or 2 of junior or senior year (for .5 credit, or non-credit); or a non-credit alternative
- At least one year-long, upper level STEM elective course, outside the student's recommended Math sequence, in junior or senior year.*
- Electives in at least two of four: engineering course, public health course, statistics course, or social science elective course.**
- A STEM-focused arts course***

Eligible courses ()

* Upper Level year-long STEM electives (requiring permission) include:

- AP Biology
- AP Chemistry
- AP Computer Science
- AP Environmental Science
- AP Microeconomics/Macroeconomics
- AP Psychology
- AP Statistics, Statistics
- Biochemistry, Microbiology, and Public Health Research (H)

** Additional STEM electives include:

- Biotechnology/Forensic Science (year-long)
- Ecology, Evolutionary Biology, and Behavior (year-long)
- Introduction to Computer Programming: Game Design (semester)
- Computer Programming II (semester)
- Engineering Design (year-long)
- Abnormal Psychology (semester)
- Developmental Psychology (semester)
- Economics (semester)
- Half the Sky: International Perspectives on Women, Gender, and Health (semester)

*** Art Department electives that support STEM:

- 3D Design
- Color Theory
- Jewelry: Wearable Art
- Photography I and II
- The Science of Art
- Woodworking: Function and Design

Selected courses offered through One Schoolhouse / Online School for Girls

STEM Co-Curricular Activities:

- GREEN Club and other environmental/sustainability activities
- Tiny House Project, designing and building a tiny house at GFS
- Robotics Club
- Makerspaces
- GFS's annual Maryland STEM Festival program (October/November, program differs each year)
- Annual Hour of Code program (December or early winter)
- Competitions, including the North American Computational Linguistics Olympiad (January)
- Biennial USA Science & Engineering Festival and the X-STEM Symposium (April)
- Mathematics and Science Department-sponsored special activities and competitions

- Service opportunities including participation in GFS tutoring programs, with a focus on helping peers with STEM subjects
- In-school field trips and weekend Activity Program opportunities with a STEM focus

VISUAL ART AND DESIGN TRACK

The Gateway Scholar program in Visual Art and Design Thinking program prepares students for future careers or majors in art and design-related fields. There are three main tracks to the Visual Art program; Design, 2D, & 3D. The Graphic Design and 3D Design curriculum combines digital art making with hands-on projects, stresses experimentation with a variety of concepts and materials, and provides a foundation for the different tracks. Students conclude the track with Portfolio where students create a series of work investigating and researching a particular theme or medium. Because classroom experiences often produce artists who seek to expand their arts learning and applications, the Pathways in Visual Art and Design Thinking Visual Arts program provides many opportunities for enrichment with Creative Co-op workshops, Studio Saturday, exhibition and guest artists, museum visits, and possibilities for specialization with Independent Senior Projects.

Eligible coursework:

For Students interested in future careers or study related to:	DESIGN - fashion - architecture - graphic design	2D - painting - drawing - photo - printmaking	3D - architecture - fashion - engineering - product design
9th grade	Graphic Design or 3D Design	Graphic Design	3D Design
10th grade	<ul style="list-style-type: none"> ● 3D Design ● Graphic Design ● Drawing (Prerequisite: Graphic Design or 3D Design) ● Photo I (Prerequisite: Graphic Design or 3D Design) ● Color Theory (Prerequisite: Graphic Design or 3D Design) ● Woodworking (Prerequisite: 3D Design) ● Jewelry: Wearable Art (Prerequisite: 3D Design) 	<ul style="list-style-type: none"> ● Drawing (Prerequisite: Graphic Design or 3D Design) ● Painting (Prerequisite: Drawing) ● Photo I (Prerequisite: Graphic Design or 3D Design) ● Photo II (Prerequisite: Photo I) ● Color Theory (Prerequisite: Graphic Design on: 3D Design) 	<ul style="list-style-type: none"> ● Drawing (Prerequisite: Graphic Design or 3D Design) ● Graphic Design ● Woodworking (Prerequisite: 3D Design) ● Jewelry: Wearable Art (Prerequisite: 3D Design)
11th grade	WISE/ART Portfolio Art <ul style="list-style-type: none"> ➤ 3D (Prerequisite: Woodworking, Jewelry, and approval from instructor) ➤ 2D (Prerequisite: Drawing, Painting and/or Color Theory, and approval from instructor) 		
12th grade	Portfolio Art <ul style="list-style-type: none"> ➤ 3D (Prerequisite: Woodworking, Jewelry, and approval from instructor) ➤ 2D (Prerequisite: Drawing, Painting and/or Color Theory, and approval from instructor) Art History		

ARTS: VISUAL AND PERFORMING

Requirements and Recommendations:

- Each student is required to complete 2 full credits (= 4 semesters) in the arts
- Both visual and performing arts must be represented in the Arts credits (at least 1 semester of each)
- 9th grade students complete two introductory level semester electives in visual and / or performing arts

Visual Arts

The Visual Arts faculty is committed to promoting literacy, communication, and imagination in all students, based on their belief that the arts are fundamental to the human experience and to the contemporary world. Our comprehensive art program provides opportunities to foster creative problem-solving, to develop aesthetic judgments, comprehend historical perspectives, explore personal identities, express innovative ideas, and facilitate cognitive, perceptual, and manipulative skills according to individuals' interests and abilities. Not all courses will be offered every year; courses with the largest pre-registration enrollments will be given preference. Please see the Visual Arts chart p.15 for sequencing of courses.

GC Art History* Grade 12 (Grade 11 with permission) 1 credit; year course
From ancient civilizations through the twenty-first century, this course surveys exemplary works of art from Africa, Europe, the Americas, and Asia by investigating processes, aesthetics, and prevalent themes in relation to political, social, economic, religious, and educational contexts. The global perspective is presented with slides, videos, primary sources, text, and field trips to see works of art and architecture in the Baltimore-Washington region. Although not an AP-designated course, students may elect to prepare for and take the AP Art History exam in May and the teacher will provide support and guidance toward that goal for qualified, interested students.

**Cross-listed in History*

W Graphic Design Grades 9,10,11,12 ½ credit; semester course

This course will offer you an understanding of visual communication tools that will guide the way you experience the world around you. Through experimentation, problem-solving and sequential approaches, students will be assigned projects that balance the learning of conceptual development, technique, and design tools. Applying principles of design, the creative projects aim to heighten visual literacy, enhance spatial reasoning, stimulate endless creative possibilities, and generate relevancy to everyday life.

Studio fee: \$25

W Color Theory Grades 10, 11, 12 ½ credit; semester course
(Prerequisite: *Graphic Design or 3D Design*)

Where do colors come from? What effects do colors have in the world? This course supports STEM objectives and is for students who are interested in the integration of science and art. Color Theory

projects include a variety of media such as painting, drawing, screen printing, and digital imaging. Through research, experimentation, and reflection, students will learn the science of color integration and the art of color pairing. Studio fee: \$50

W Photo I: Wet Lab Grades 10, 11, 12 ½ credit; semester course

(Prerequisite: Graphic Design or 3D Design)

This course will help you see the world rather than just look at it. Discover the magic of traditional, photographic image making. Mix your own chemistry and witness images appear out of thin air. This course supports STEM objectives and introduces the art of black and white photography via the 35mm camera, picture making, and darkroom skills. Our work will include pinhole photography, photograms, double exposures, dodging and burning, motion studies and compositional principles. With emphasis on composition, photography enhances an artist's facility with drawing, filmmaking, digital imaging, and painting.

Studio fee: \$125

W Photo II: Digital Darkroom Grades 10, 11, 12 ½ credit; semester course

(Prerequisite: Photo I)

Take your selfies to the next level! Develop your personal, artistic vision. This class is taught both in the Wet Lab as well as in the Digital Darkroom. Students may choose to use traditional processes, digital processes, or a combination of the two to create exciting photographic bodies of work. Our work in the Wet Lab and Digital Darkroom will include studies of Perspective, Long Exposures, Light and Shadow, Portraiture, and Visual Narrative. Structured as an intensive workshop, students will refine the skills learned in Photo I, further develop their imaging skills, and explore advanced process, techniques and themes.

Studio fee: \$125

W Digital Portfolio Grades 11, 12 ½ credit; semester course

(Prerequisite: Photo I, Photo II, and permission of instructor)

This course builds on the skills and processes learned in the prerequisite courses and offers opportunities for concentrating on a particular subject or style. Aimed at assembling a college portfolio, this course requires considerable dedication, discipline, and imagination. Alternative process in both traditional and digital photography will be encouraged to expand the student's repertoire. This class may be taken up to three times; it is required for students submitting a portfolio for AP to take the course three times.

Studio fee: \$25-\$100

Drawing Grades 10, 11, 12 ½ credit; semester course

(Prerequisite: Graphic Design or 3D Design)

“Everyone learns to write. We are taught to write by copying marks, and even when we copy marks, we all make them individually, we all have different kinds of handwriting. Within a year or two of being taught to write, things happen to our handwriting and personal ways of making marks develop very quickly. That's the way, really, you learn to draw. And in learning to draw (unlike learning to write) you learn to LOOK. It's not the beauty of the marks we like in writing, it's the beauty of the ideas. But in drawing, it's a bit of both.”- David Hockney

Drawing is fundamental to other art studies. This course grows the student's understanding of the technical and conceptual components to drawing. With a focus on observational drawing, students will

investigate still life, portraiture, human figures, and architecture subjects.

Studio fee: \$40

Painting Grades 10, 11, 12

½ credit; semester course

(Prerequisite: Drawing)

Investigate light, form, and color through the medium of paint. Using both traditional and innovative techniques, students will interpret still life arrangements, human figures, structures, and abstraction. In addition to painting in the studio, students will keep a visual journal, participate in critiques, and view paintings in a local museum. Students will gain a working understanding of color theory as is necessary in painting, and would benefit from taking the Color Theory course as well for increased depth of knowledge.

Studio fee: \$100

Drawing and Painting Portfolio Grades 11, 12

½ credit; semester course

(Prerequisite: Drawing, one of the following courses: Color Theory or Painting, and permission of instructor)

The course is for students who want to pursue a particular concept, subject or technique. Portfolio expects students to stretch themselves to expand their skills, to explore the expressive qualities of drawing, painting, printmaking or mixed media and to implement a few of their own projects. Aimed at contributing to a college portfolio, the creative work requires initiative, dedication, discipline, and imagination. Students who wish to submit a portfolio for College Board AP credit are required to take the course for 3 semesters in order to complete the mandated number of works.

Studio fee: \$20-\$100

GC 3D Design Grades 9, 10, 11, 12

½ credit; semester course

Create beyond the confines of the two dimensional world and allow your art to function in 3 dimensions. Design, experiment and craft three-dimensional objects with a range of materials such as plaster, metal, wood, wire and found objects. This introductory course supports STEM objectives, enhances students' understanding and manipulation of space, emphasizes problem-solving, structural and spatial reasoning, and provides training in the fundamental processes and conceptual development of sculpture.

Studio fee: \$25

Jewelry: Wearable Art Grades 10, 11, 12

½ credit; semester course

(Prerequisite: 3D Design)

Develop basic jewelry making skills, including cutting, forging, filing, soldering, and polishing copper, silver or new gold. Students will be encouraged to expand upon design fundamentals and explore jewelry making as an expressive, inventive art form.

Studio fee: \$75

W Woodworking: Function & Design Grades 10, 11, 12

½ credit; semester course

(Prerequisite: 3D Design)

This course would provide an in-depth introduction to the tools and processes in the woodshop. From designing and selection of materials to construction and finishing, emphasis will be placed on craftsmanship, safe use of materials and tools, and group work. Woodworking projects enhance students' spatial reasoning skills, teach complex problem solving, and help put their academic subjects, such as geometry and physics, into real life context. Hands on design classes help students gain confidence as real

world problem solvers, teach perseverance, patience, and attention building skills, and instill pride of accomplishment and self-esteem through the processes of designing and making.

Studio fee: \$100

W 3D Portfolio Grades 11, 12

½ credit; semester course

(Prerequisite: Woodworking, Jewelry, and permission of instructor)

Delve deeper into the capabilities and expressiveness of sculpture, jewelry or other three-dimensional materials to assemble a body of work with innovative concepts and forms. Aimed at assembling a college portfolio, this class requires considerable motivation, discipline, and imagination. This class may be taken up to three times; it is required for students submitting a portfolio for AP to take the course three times.

Studio fee: \$25-\$100

Performing Arts

The Performing Arts faculty prepares students to thrive in a complex and changing world. At the core of our courses and co-curricular opportunities, we support each student's authentic self-awareness and expression by fostering a "creative self" within each discipline: dance, music and theatre. Through a comprehensive curriculum organized around creating, performing, responding and connecting, students gain an understanding of performance skills, artistic process, historical relevance and how the performing arts are infused into their own cultures and communities. The cultivation of a safe, nurturing environment encourages students to take risks, make connections across art forms, develop their own artistic visions and discover confidence in their unique abilities and contributions.

MUSIC

The Upper School Music program gives students the knowledge and skills necessary to express themselves musically in meaningful ways and to formulate valid aesthetic opinions about music. The required and elective courses develop music literacy and cultivate an understanding of music as an art form, which is an integral and valuable component of life in all cultures.

Co-curricular opportunities within the Upper School Music program include the Ragged Robins*, an a cappella singing group open to 11th and 12th graders by audition only, and the annual spring Musical.

Garrison Forest School also offers a co-curricular Applied Music Program, through which students can receive private lessons in voice, piano, violin, flute, cello, guitar, percussion and brass/woodwinds.

** Current and aspiring members of the Ragged Robins must have a minimum of at least one (1) year of Chamber Choir experience and/or permission of the Upper School Music Teacher.*

Modern Band Grades 9, 10, 11, 12

½ credit; semester course

(No Prerequisite – instrumental and vocal experience preferred)

Modern Band teaches students to perform, improvise and compose using popular music styles that they know and love. These include Rock, Pop, Reggae, Hip Hop, R & B, Jazz, Blues, Gospel, Rap and other modern styles. The Modern Band class features guitar, bass, keyboard, drums and vocals. Students will learn to work with technology for performance and computers to create lead sheets and compose songs. Students are required to perform in at least one school event during the course. Students in this course may also perform with a choral ensemble as the musical accompanist for performances both on and off campus. Attending all Modern Band dress rehearsals and performances is a course requirement.

Chamber Choir Grades 9, 10, 11, 12

½ credit; semester course

The Chamber Choir is a vocal ensemble which performs throughout the year both on and off campus. All members of the ensemble are expected to have basic facility with matching pitch and blending in an ensemble. Members will also develop a facility with sight-singing. Chamber Choir studies a varied repertoire which includes diverse classical, pop, folk and jazz selections. Students form a unified ensemble, advance in their vocal technique, and expand their musicianship and sight singing skills. Interested students also have opportunities to perform as soloists and in small ensembles. Attending all rehearsals and performances is a requirement for this course.

AP Music Theory*

1 credit; year-long (online)

*Offered through One Schoolhouse/Online School for Girls 2021-2022

(Prerequisite: prior study of music theory and departmental permission)

See p. 53 for full course description

THEATRE

The Upper School Theatre program offers skills-based training in the theatre arts. From an introduction to theatre history, to acting and directing, to script work and playwriting, these courses promote active learning environments, giving students a kinesthetic and empathetic understanding, as well as an intellectual understanding, of the topics covered. Students will have opportunities to perform their work for an audience, allowing them to showcase their skills. Emphasis is on developing self-awareness of the body and voice, developing one's own aesthetic by studying various genres and styles of theatre, working with others as an ensemble, and building a strong sense of self-confidence. The skills of collaboration, creativity, self-directed learning, curiosity, and critical thinking are highlighted within each theatre course. Whenever possible, theatre courses are reflective of and offer connections to the academic curriculum and today's world.

Co-curricular opportunities within the Upper School Theatre program include two full productions per year: a fall Play and a spring Musical. Upper School students can also be involved in the technical theatre process for these productions as assistant directors, stage managers, design team members or tech crew.

Acting & Directing (I) Grades 9, 10, 11, 12

½ credit; semester course

This course is an introductory exploration of the role of the actor and the director. Students will be introduced to the basics of acting, which include but are not limited to: script analysis, making clear choices, identifying objectives and tactics, stage presence, vocal projection and learning how to work successfully as an ensemble. Students will also be introduced to the role of the director, using William Ball's *A Sense of Direction* as a guide for the class. For the final project of the course, students will elect to either direct or act in a one-act play, to be presented to the Garrison Forest community.

Acting & Directing (II & III) Grades 9, 10, 11, 12

½ credit; semester course

(Prerequisite: Acting & Directing I or II)

Students who aspire to further explore and improve their acting or directing skills may elect to continue with this course. A wide variety of diverse acting and/or directing styles will be studied. As opportunities arise, students may have the experience of working with professional guest artists during this course. For the final project, students will direct or act in a one-act play, to be presented to the Garrison Forest community, and create an Actor's Notebook or a Director's Notebook tracking the development of their character(s) and/or concept(s).

Playwriting Grades 10, 11, 12

½ credit; semester course

In this class, students will read and study several plays, and begin writing (and possibly staging) scenes and monologues of their own creation. They will learn to analyze what is essential to a powerful monologue and how writing for two characters presents very different challenges. Students will study and compare the writing styles of various playwrights as they are discovering their own writer's voice. Students will be strongly encouraged to submit a final piece of their writing for publication. As opportunities arise, students may also learn from guest speakers/artists during this course.

Theatrical Production Grades 10, 11, 12

½ credit; semester course

This semester course provides students with an in-depth exploration of the theatre production process. From initial readings and play analysis through design and production, all elements of production are explored. Class discussions, selected readings, videos and visual presentations will help students develop and demonstrate theories and concepts through practical applications. Students will take on roles as actors, directors, dramaturges, designers and stage managers as they work on two major GFS productions during the course. This course is ideal for the student who is interested in the backstage process of theatre.

DANCE

Garrison Forest School also provides rich opportunities to develop in the performing arts through participation in Beginning, Intermediate, and Advanced Dance Classes. The Upper School Dance program is a technique-based, challenging after-school program in which students focus on the development of strong dance skills, build self-confidence, and explore artistic self-expression. See p. 42-43.

COMPUTER/TECHNOLOGY

It is the goal of Garrison Forest School that each graduate leave the school confident and ready to use her

technology skills. Students will have opportunities to use technology in a way that combines creativity and advanced applications.

W GC Engineering Design* Grades 10, 11, 12
course

1 credit; year

The objective of this course is to introduce basic concepts of engineering. In this hands-on course students will work individually and in collaborative teams to creatively solve relevant design challenges using the engineering design process. Students will be exposed to different engineering disciplines and ethics while emphasis will be upon modeling, problem-solving, and communication skills.

**Cross-listed in Science*

W Introduction to Computer Programming: Game Design

Grades 10, 11, 12

½ credit; semester course

This course allows students to create their own digital games without needing any previous programming experience. Students will learn about game design and development, reimagine well known games, and bring their own ideas to the digital screen. Alongside exploring gameplay, students will be engaged in interactive design, problem-solving, and learning the principles of computer science, while using a friendly, graphical-based language. This is a class for anyone who has ever been curious about digital games, computer science, or using design and creativity in new ways. This course can be taken first semester or second semester.

W Computer Programming II

Grades 10, 11, 12

½ credit; semester course

(Prerequisite: Introduction to Computer Programming or permission of instructor) This course builds upon the computer science principles taught in Introduction to Computer Programming. Students will learn a new programming language, Python, while continuing to enhance their computational thinking through designing games. This course will be offered second semester only.

W AP Computer Science Principles Grades 10, 11, 12

1 credit, year course

(Prerequisite: Geometry)

This course will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course which will prepare students for the AP exam and for further study in computer science.

W AP Computer Science A (Grades 10, 11, 12)*

1 credit; year course (online)

**Offered through One Schoolhouse/Online School for Girls 2021-2022*

(Prerequisite: Prior coursework in computer programming and permission of instructor)

See p. 49 for full course description

W Digital Thinking: Apps to Ethics Grade 9
(Required of all ninth graders)

non-credit; semester course

This required 9th grade course is designed to introduce and reinforce GFS technology expectations, policies and procedures and solidify students' understanding of computer science principles and practices so that they can make informed choices and use appropriate digital tools and techniques. In this course, students will explore the breadth of computing and its influence in almost every aspect of modern life as well as the social and ethical implications of using computing technology both personally and professionally.

Yearbook I

Grades 10, 11, 12

½ credit; fall semester course

This course will focus on the fundamental concepts of yearbook layout, design, and production, and introduce the basics of photography. Students will have an opportunity to dive into the digital design process, create feature spreads for the yearbook, and contribute to the creative development of the content. This class leads with four topics of theme, design, photography, and journalism, and helps students develop their ability to communicate, collaborate, problem-solve, and effectively manage their time. This course is only offered first semester.

DECISION MAKING

The goal of the Decision Making curriculum is to teach decision making skills and to provide current information on health-related topics. Classes are lecture and discussion-based and are designed to meet the needs of the students as their moral, intellectual, and social capabilities develop during their tenure in the Upper School.

Decision Making I Grade 9
(Required of all 9th graders)

non-credit; year course

This course encourages each student to examine her own value system as we discuss health topics, social and emotional issues, and ultimately, responsible decision making in everyday life. The class functions as a "group" in which students explore their values as they discuss varying topics. Each girl is encouraged to express her opinion respectfully while recognizing the differences that exist in family, ethnic, racial and cultural experiences within the class. We use films, websites, speakers and handouts to explore topics and spark discussions.

Career Explorations/Test Prep Grade 10
(Required of all 10th graders)

non-credit; semester course

During the second half of the year, the sophomore class engages in SAT/ACT Test Prep and Career Explorations. The Test Prep mini-course and our Career Explorations curriculum consist of six sessions taught during X-Block. The Test Prep course is delivered by Capital Educators, a private test prep company based in Rockville, MD. Career Explorations is team-taught by the college counselors and other administrative leaders in the Upper School. Career exposure and research, resumé writing and basic interviewing skills are covered in Career Explorations.

Decision Making II Grade 11

non-credit; year course

(Required of all 11th graders)

This course is designed to provide students with information involving personal values and college search strategies that will help them in making decisions about their immediate and future goals. The college search and application process is taught in this class. Camp College, a three-session college application workshop, is offered in May. Students will create a Common Application account, learn how to approach and draft supplemental essays, and have their personal essay reviewed by college admissions professionals.

Transitions Grade 12

non-credit; year course

(Required of all 12th graders)

This course helps to facilitate the transition from high school to life beyond. The first half of the year focuses on the college admission and application process while the later part of the year teaches students about personal, social, and financial skills that will guide them in the future.

ENGLISH

The English program is designed to foster appreciation for literature as a reflection of human experience and to encourage students to become insightful readers and expressive writers. Over four years, students develop their critical thinking, editing, and close reading skills; read deeply in a variety of genres; and find their own voices by writing, revising, and presenting essays and creative writing.

Requirements: All students must earn four credits of English, completing the sequence through English IV.

Literature and Composition

1 credit; year course

(Required English course for international students new to the Upper School)

This World Literature course emphasizes analytical skills, writing skills, speaking skills, listening skills, grammar, and vocabulary development through the study of a variety of genres, including short stories, personal essays, nonfiction, novels, poetry, and drama. This course develops a foundational knowledge of literary terms and concepts. Through close reading, class discussions, class debates, and extensive writing, students will improve their ability to appreciate and analyze texts. Students will practice choosing meaningful writing topics, collecting relevant information from the texts, formulating thesis statements, and developing their ideas in writing. Students will complete many written and oral presentations, journal entries, short written responses and longer expository essays

English I: Reading to Write Grade 9

1 credit; year course

This course includes an intensive introduction to both analytical and creative writing skills, with an emphasis on academic writing, grammar, and vocabulary development. Students will read in a variety of genres including stories, personal essays, nonfiction, novels, poetry, and drama. These works will be read and studied both together as a class and through independent enrichment reading assignments. Students will generate thematic connections across genres, cultures, and contexts, and through close reading, class

discussions, and extensive writing, students will develop their ability to appreciate and analyze literature. Full-length texts include *The Bean Trees* by Barbara Kingsolver, Shakespeare's *Romeo and Juliet*, *Life in a Jar* by Jack Mayer, *Warriors Don't Cry* by Melba Patillo Beals, *Fahrenheit 451* by Ray Bradbury.

English II: A Study of Genre Grade 10 1 credit; year course

English II is designed to continue the survey of genres which students began in English I by reading drama, short stories, novels, personal essays and poetry by a wide range of authors from around the world. By studying texts from different cultures, students become more globally aware, and thematic highlights may include identity and belonging, the notion of home, and desire for power. In this course, students become more proficient in close reading, language analysis, and vocabulary development and usage. English II emphasizes analytical writing; students will develop their skills in selecting and discussing evidence to support a thesis statement. The wide range of writing assignments encourages students to continue to develop their own voice in their writing style.

English II Honors: A Study of Genre Grade 10 1 credit; year course
(by Departmental permission)

Students in this accelerated course will read many of the same core texts as English II but proceed at a faster pace and have more readings in poetry, especially metaphysical poetry, with an emphasis on figurative language, abstract concepts and historical context.

English III: The Literature of American Identity Grade 11 1 credit; year course

English III is designed as a survey American literature course, with overarching themes of identity and experience, the American Dream, race in America, gender, and class. Students read short stories, novels, plays and poetry by a wide range of American writers and will analyze rhetoric in essays, speeches, letters, and other nonfiction texts. Students in English III will also continue to develop their writing skills and will have opportunities to write personal responses and narratives, to work creatively and collaboratively, and to practice their presentation and public speaking skills. Culminating projects in English III include the Passion Project, where students can delve into a topic of their choosing, and the college essay unit, where students apply the entire writing process -- drafting, revising, editing, reviewing -- to their college application essay. Although English III at Garrison Forest does not carry the AP designation, students may will be prepared for and may opt to take the AP English Language exam.

English III Honors: The Literature of American Identity Grade 11 1 credit; year course
(by Departmental permission)

Students in English III Honors will read many of the same core texts as English III but have additional readings in nonfiction and poetry within each unit. The class will proceed at a faster pace and have more emphasis on elements of figurative language and authorial style. Although English III Honors at Garrison Forest does not carry the AP designation, there will be explicit instruction and practice to prepare students for taking the AP Language and Composition exam.

English IV: The World as Text Grade 12 1 credit; year course

Senior English encourages students to apply and synthesize all of the critical reading and writing skills taught in the Upper School. Students read canonical and contemporary works from classical Greek

tragedy and contemporary American drama to novels and memoirs of personal discovery and transformation. A selection of thematically relevant poems, short stories and nonfiction accompanies each longer work. The final quarter of the course is dedicated to nonfiction texts and journalism. Students choose a nonfiction book to read independently and a subject to interview and profile, which allows them to explore non-academic writing and real-world experiences.

AP English Literature and Composition Grade 12

1 credit; year course

(by Departmental permission)

The focus of Advanced Placement English is World Literature, Drama, and Poetry with an emphasis on 19th and 20th century Western European fiction and critical theory. This college-level course demands extensive reading and writing as well as significant participation from students during seminar-style class discussions. The class requires active engagement, collaboration, and a genuine desire to broaden one's worldview. In preparation for the AP Literature exam in May, students will learn how to analyze a text at the sentence-level and discuss the ways in which an author's use of language generates and intersects with theme. Students will seek to discover *why* a writer makes his/her choices. Course texts include novels, plays, and poetry, as well as works of critical nonfiction. Analytical writing is a significant element of the course, and students will complete at least one essay or major project for each work of literature. Many essays will be written in class as a way of preparing for the format of the AP English exam.

Support for English for Speakers of Other Languages (ESOL)

ESOL support is provided to all for whom English is a non-native language, but Garrison Forest Upper School does not offer an ESL course or track. All students for whom English is a second language and who are new to the Upper School (including students who were in Garrison Forest Middle School) will be scheduled for the Literature and Composition course.

HISTORY & SOCIAL SCIENCES

The primary goals of the History & Social Sciences Department are to help students develop the abilities to think critically, independently, ethically, and philosophically. Students should recognize that they inherit the past and that they are global citizens who share a responsibility for the present and the future.

Through a solid core of interdisciplinary and multicultural courses offered in history, students acquire the global perspective they need to appreciate diversity and to accept that there are multiple potential answers to world questions and problems. The History & Social Sciences faculty strives to challenge students through a variety of learning techniques to: analyze controversial issues and evaluate alternative solutions; practice and strengthen the skills which will help them acquire and use knowledge; articulate an understanding of historical developments; and appreciate the dignity of individuals, cultures, and nations.

Elective offerings vary from year to year according to student interest; not all courses may run every year.

Requirements and Recommendations:

- Students must earn a minimum 3 credits of History & Social Sciences.
- Students are required to complete World History II and United States History.

- Latin Literature semester electives are cross-listed and may satisfy either a World Language or History credit (but not both).

World History I Grade 9

1 credit, year course

World History I explores the histories and cultures of major societies around the world from 500 – 1500 CE. Through the exploration of facets of human civilization—cultural values and traditions, political and economic structures, ideologies and religious beliefs, scientific and artistic developments—students foster their own sense of historical imagination and empathy. Students cultivate global citizenship skills and historical habits of mind by developing their ability to assess evidence, interpret multiple perspectives, and analyze change and continuity over time. Significant emphasis is placed on the development of organizational, note-taking, critical reading, writing, and research skills.

World History II Grade 10

1 credit, year course

World History II is a continuing exploration of the issues and events which have created world history from 1500 CE to our contemporary age. With particular attention to the theme of "revolution," students analyze the causes and effects of ongoing social, economic, political, religious, intellectual, and technological changes. They examine multiple perspectives, endeavoring to understand the interrelationships and diversity of our world. The course reinforces historical thinking skills, work habits, and analytical reading and writing, including the techniques of independent research.

World History II Honors Grade 10

1 credit, year course

(by Departmental permission)

The class will proceed at a faster pace than World History II. The course will use a greater span of supplemental primary sources and provide students with additional oral and written opportunities to demonstrate deep analysis and synthesis. This course expects independent understanding of textbook reading and is recommended for students who are highly motivated and meet the criteria for recommendation.

U.S. History Grade 11

1 credit, year course

The U.S. History curriculum explores the richness of the American experience through a thematic and chronological study from the colonial period to the present. Various perspectives are considered in discussions of the evolution of the United States of America. Concepts such as the importance of civil liberties, individualism, capitalism, frontier spirit, imperialism, conflict and compromise, sectionalism and nativism are examined as students explore the variety of facets of American development. How and why events happened, and the importance of their effects, are driving elements of this course.

While developing their skills as historians, the students build on their analytical reading and writing skills to explore questions such as: What is an American? What factors make up the American identity? How does the definition of "America/n" change over time? Students use a range of primary and secondary sources such as non-fiction and fiction works, audio and visual samples, artifacts and more, to examine the various periods and movements in America's history and the many ways in which those times have been interpreted. Students are challenged to develop their ideas in written and oral expression, expository and creative writing, civil discourse and open debate.

AP United States History Grade 11

1 credit, year course

(by Departmental permission)

The AP United States History curriculum explores the richness of the American experience. While developing their skills as historians, the students build on their analytical reading and writing skills to explore questions such as: What is an American? What factors make up the American identity? How does the definition of "America/n" change over time? Using a range of primary and secondary sources such as non-fiction and fiction works, audio and visual samples, artifacts and more, we critically examine the various periods and movements in America's history and the many ways in which those times have been interpreted. Students are challenged to develop their ideas in written and oral expression, expository and creative writing, civil discourse and open debate.

Students electing this course should have both the necessary verbal skills and a strong interest in U.S. culture and history; they should expect to do more reading, and reading of a more complex nature, as well as more analytical writing, than that required in the other U.S. History sections. Because of the pressure of time and the amount of material to be covered before the AP exam, students should also be aware of the necessity of working independently; class discussion in this course is not designed to explain what students have read, but to build upon it.

W AP Psychology Grade 12

1 credit, year course

(by Departmental permission)

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Areas covered include: history of psychology, research methods, biological bases of behavior, sensation and perception, cognitive psychology, physical, social and emotional development, abnormal behavior and therapies, social psychology, and gender differences. This is a rigorous and demanding course requiring students to have a strong work ethic, to read at a rigorous pace, and to complete a variety of assessments, including independent research and analysis. Students are expected to demonstrate strong writing and analytical skills, and independent work habits. The AP Psychology course prepares students to sit for the AP Psychology exam in May.

W Abnormal Psychology Grades 11, 12 elective

½ credit, semester course

In Abnormal Psychology, a branch of psychology, students will learn how to evaluate biological, psychological, and sociocultural theories in relation to abnormality. Using a variety of methods, the class will teach students about psychological disorders and their treatment, including different types of therapy styles. Some of the disorders covered include mood disorders, dissociative disorders, sleep disorders, psychotic disorders, and many others. Students will learn how to debate the various therapies of these disorders as well as examine the intersection between psychology and the legal system by examining things like insanity defenses throughout recent history and current events.

GC Art History* Grade 12 (Grade 11 with permission)

1 credit; year course

From ancient civilizations through the twenty-first century, this course surveys exemplary works of art from Africa, Europe, the Americas, and Asia by investigating processes, aesthetics, and prevalent themes in relation to political, social, economic, religious, and educational contexts. The global perspective is

presented with slides, videos, primary sources, text, and field trips to see works of art and architecture in the Baltimore-Washington region. Although not an AP-designated course, students may elect to prepare for and take the AP Art History exam in May and the teacher will provide support and guidance toward that goal for qualified, interested students.

**Cross-listed in Visual Arts*

GC Contemporary World Issues Grades 10, 11, 12 elective ½ credit; semester course

What are the main issues facing the world today? What are the main issues facing the United States today? What are some of the successful strategies that have helped with these issues? How does our personal bias influence the way we look at the world? Why is it important to detect media bias, and how do we detect it? These are among the many questions that we will explore in this class. The world is increasingly interconnected and students will draw from planned content as well as from daily national and international headlines. A special focus will be placed on independent research. Students will apply critical thinking and research skills to examine current events and contemporary issues. Topics such as climate change, migration, immigration, water scarcity, ocean conservation, poverty, nuclear security and gender equality have been studied in this class. This is primarily an individual exploratory class where students will have the freedom to focus on their main interests. At the same time, students will learn to engage in dialogue on issues that may be controversial. Students will give regular current events reports, write documentary reviews and prepare educational slideshows to teach their classmates about a question they have explored.

W Developmental Psychology Grades 11, 12 elective ½ credit; semester course

This course introduces the theories and current research that form the foundation of the study of human development from conception through adolescence. We study perception, learning theories, cognition, memory, language, and social and moral development. Additional topics will include psychological disorders, heredity and environment, temperament, attachment, developmental milestones and expectations, childrearing practices, gender, and cultural perspectives. This course requires students to participate in observations with children in the GFS Preschool and Lower School.

GC Economics: Making cents of personal and global financial literacy

Grades 10, 11, 12 elective ½ credit; semester course

Using real-life data and case study activities, students explore the issues involving their own financial literacy and the factors which influence the global economy. In the process, we examine basic microeconomic and macroeconomic concepts, such as: how to budget one's money, how to be a wise consumer, making wise investment decisions, the importance of saving for retirement, supply and demand, taxes, the federal budget, and international trade.

GC Global Gateways ½ -1 credit; semester course or year course

Grades 10, 11, 12 elective

Global Gateways is an advanced seminar aimed to equip our graduates with the global citizenship competencies they need to navigate the complexities and interconnectedness of our global society. Based in the United Nations Sustainable Development Goals (SDGs), course content will expose students to a number of our global challenges and guide them through classroom as well as experiential lessons to learn how to address them. Offered in a non-traditional scheduling format consisting of one 2-hour evening seminar each week and monthly weekend experiences. Students will spend roughly one month on each

module designed around one or more of the SDGs. Module topics may vary, but could include: Leadership, diplomacy, and conflict resolution; Climate change and environmental sustainability; Interfaith and inter-race dialogue; City Planning for an equitable future; Global literacy - to name a few. The course is designed for the curious learner looking to better understand the world and its people and the complexity of global issues.

W GC Half the Sky: International Perspectives on Women, Gender, and Health

Grades 10, 11, 12 elective

½ credit; semester course

This innovative Public Health course is designed to unite the humanities and science to provide students with the knowledge, understanding, and skills needed to identify and understand emerging global issues related to girls' and women's health. Women's health issues including reproductive health, child marriage and motherhood, and disparities impacting the health and well-being of women and girls will be examined through the lenses of culture, government, education, and economics. Particular attention will be paid to issues that affect adolescent women internationally and in the United States. This course is recommended for students with an interest in a Public Health WISE placement and/or in the Jenkins Fellows program.

GC Latin Literature: Death of the Roman Republic: Power, Politics, and Public Disorder*

(offered in alternate years; not offered in 2021-2022)

This literature course is for students who have mastered the study of advanced Latin grammar. Selections will include excerpts from Cicero's speech *In Catilinam*, Sallust's *Bellum Catilinae*, and Caesar's *Bellum Civile*. Some secondary source material will be read in translation. Through the careful reading of Latin texts, students will develop facility in translation, literary and historical interpretation, and critical analysis

**Cross-listed in World Languages*

GC Latin Literature: Laugh Like a Roman: Comedy, Satire, and Personal Insults*

(offered in alternate years; not offered in 2021-2022)

This literature course is for students who have mastered the study of advanced Latin grammar. Selections will include excerpts from playwrights Plautus and Terence, satirists Petronius and Juvenal, and masters of invective Catullus and Martial. Some secondary source material will be read in translation. Through the careful reading of Latin texts, students will develop facility in translation, literary and historical interpretation, and critical analysis.

**Cross-listed in World Languages*

GC Latin Literature (Fall): Romance, Regret and Revenge: Tales of Love on the Rocks*

½ credit, semester course

(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

A literature course for students who have mastered the study of advanced Latin grammar. Selections will include poems of Catullus, excerpts from Cicero's *Pro Caelio*, scenes from Ovid's *Metamorphoses* and Vergil's *Aeneid* (a preview of the poetry in the AP course). Through the careful reading of the Latin texts, students will develop and hone facility in translation, literary and historical interpretation, and critical analysis.

**Cross-listed in World Languages*

GC Latin Literature (Spring): Enemies of Rome* ½ credit, semester course
(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

A literature course for students who have mastered the study of advanced Latin grammar. Readings will focus on hostile reactions to Roman power and cultural influence as it dominated a growing empire. Selections will include excerpts from Caesar's *De Bello Gallico* (a preview of the prose in the AP course), Cicero's *In Catilinam*, Sallust's *Bellum Catilinae*, Livy's *Ab Urbe Condita*, Tacitus's *Annales*, and poems of Catullus and Horace. Students will develop and hone facility in translation, literary and historical interpretation, and critical analysis.

*Cross-listed in World Languages

GC Modern Africa Grades 10, 11, 12 elective ½ credit, semester course

This course studies the history of Africa and its interactions with the western world from the mid-19th century through the present. Paying special attention to African current events, students explore salient historical questions that are relevant to understanding the continent today. We explore a range of issues from a variety of countries, including but not limited to colonial Congo, postcolonial South Africa, and modern Rwanda, Uganda, South Sudan, Libya, Mali, and Nigeria. These issues include global relationships, governance, education, ethnic and religious relations, and violent extremism. We work to dispel stereotypes and explore commonalities and differences. The study of African history is not just in understanding its turbulent history, but also in appreciating its rich musical and artistic cultures. Students are expected to have a genuine curiosity about modern Africa resulting in active participation. Students end the course with an independent research project on a contemporary issue in a country of their choice.

GC Modern Latin America Grades 10, 11, 12 elective ½ credit, semester course

Latin America is a diverse and expansive region, which represents many ethnicities, interests and cultures. This course examines Latin America since its Age of Independence in the 1800s. Both parallels and differences among the various nations of Latin America will be explored. Students learn about the leaders, artists, economies, politics, and popular cultures of Latin America through primary and secondary sources, case studies, literature and video. Current issues regarding Latin American relations with the United States and immigration policies are also important topics of discussion.

Recent American History: From JFK to Today Grade 12 elective ½ credit, semester course
(Prerequisite: U.S. History/American Studies or AP U.S. History)

This course examines major events from the presidency of John F Kennedy to the presidency of Donald J. Trump. The speeches, films, newsreels, literature, primary documents, political campaigns and popular culture of this time are analyzed in written and spoken form. The assignments for this course include expository essays, case studies, group projects and class debates. The twentieth century was known as the American Century. Will the same be said of the twenty-first century?

GC Stopping Genocide Grades 10, 11, 12 elective ½ credit, semester course

This course takes us on a journey into the heart of one of the most troubling aspects of the human condition: ethnic conflict and the "cleansing" that sometimes accompanies it. We begin with an examination of the most recognized genocide in recent history, the Holocaust. We also learn about other modern examples of "ethnic cleansing," focusing on why these events occur, what drives people to participate in them, and how ethnic conflict can be avoided in future generations. We explore these

questions, and more, utilizing a variety of modalities: students should expect a heavy emphasis on primary document readings, individual research and reporting, documentaries, and discussion.

GC World Religions Grades 10, 11, 12 elective
semester course

½ credit,

This course explores the history, beliefs, practices, and contemporary influence of Judaism, Christianity, Islam, Hinduism, and Buddhism. Through a broad variety of primary and secondary sources—including sacred texts, interviews, news articles, personal narratives, podcasts, film, artwork, and field trips—we ponder how people have grappled with the essential questions of "Who am I? What is my purpose in this life? What is the meaning of suffering and death? What are my obligations? What is right and ethical?" We learn about the rituals that shape the lives of followers and examine the roles religions play in current political and social controversies, both across the globe and here in the United States. In addition to discussion and journal writing, students have the opportunity to research a specific religious movement or issue according to their interests.

WORLD LANGUAGES: CHINESE, FRENCH, LATIN, AND SPANISH

The World Languages Department strives to develop a love of and an appreciation for the power of languages. We seek to develop fluency, language awareness, cultural competency, and an analytical mind. It is important to us that all our courses have a strong cultural component in order to offer an authentic experience and cultivate a global citizen's perspective. Our modern language courses aim to develop equally the speaking, listening, writing, and reading skills of our students by providing classes that are taught progressively in the target language. In Latin the focus is on developing analytical reading skills enabling students of all levels to appreciate literature and cultivate the skills of literary criticism. We believe in differentiated teaching, so that students of diverse abilities can gain access to the beautifully complex world of languages. Students will emerge from our curriculum with a solid language foundation, an appreciation for diverse cultures, and the tools to navigate and contribute to a multilingual and multicultural world.

Depending on enrollment numbers, some levels may be offered through online partnerships.

Requirements and Recommendations.

- Chinese, French, Latin, and Spanish courses are offered from Level I to AP.
- Students are placed at the appropriate level depending on previous experience. Continuation at the Honors level from one year to another depends on current performance; students wishing to transition to an Honors level may need to complete additional work and take a placement test.
- Students are required to complete Level III in one world language, and it is recommended that they carry at least one world language through grade 12.
- Students entering grade 9 with a modern language and Latin are encouraged to continue both languages at least through grade 9.

CHINESE

Chinese I

1 credit; year course

Chinese I is an introductory Mandarin Chinese course. It is open to students with little or no previous language background in Chinese and to those who wish to begin study in a world language. The objective of this course is to enable students to use simple Chinese in common real-life daily settings through studying the fundamentals of pronunciation, grammar and character writing. Cultural knowledge related to lessons will be introduced to enrich understanding and strengthen interest in learning Chinese.

Chinese II and II Honors

1 credit; year course

Chinese II and II Honors are intended for students who have successfully completed the introductory level. The class enables students to further develop the communicative skills of listening, speaking, reading, and writing Mandarin Chinese at an intermediate-low level. The course focuses on basic language skills and emphasizes the development of oral proficiency. It also expands upon vocabulary and grammatical structures. Students will explore Chinese culture from traditional China to the 21st century through research projects, videos, and short stories. Honors students are introduced to more challenging material and assessments.

Chinese III and III Honors

1 credit; year course

(Prerequisite: Chinese II or II Honors)

Chinese III and III Honors is designed to consolidate the skills (listening, speaking, reading, and writing) that students have acquired in Chinese II or IIH, as well as to introduce more complex grammatical structures and broader vocabulary. Students develop the ability to apply their language skills toward interpretive, presentational, and interpersonal practice. Various visual and audio aids allow students to explore Chinese culture from traditional China to the 21st century. Honors students are introduced to more challenging material and assessments.

GC Chinese IV, IV Honors, and V

1 credit; year course

(Prerequisite: Chinese III or III Honors)

This course is designed for students who wish to continue to study Chinese beyond the required Level III course and to reach an intermediate-high level. Students continue to focus on reading, writing, listening, and speaking skills while acquiring new vocabulary and reviewing all basic and advanced grammar. There is an emphasis on oral communication and writing skills. Students are involved in oral discussion of all material studied. They also write papers about the themes studied in class. They read a variety of materials about the culture and history of China. The curriculum alternates every other year so that students are not repeating the same material if they are in this course for two years. Honors students are introduced to more challenging material and assessments.

GC AP Chinese Language and Culture

1 credit; year course

(Prerequisite: Chinese IV Honors)

This advanced course is designed to establish strong communication skills, and for students who have taken Honors Chinese courses throughout the Upper School and who are on track to take the AP Language and Culture exam at the end of their senior year. Students will explore the five AP topics suggested by College Board (Global Challenges, Sciences and Technology, Contemporary Life, Personal and Public Identities, and Families and Communities) through informational and literary sources spanning

the Chinese-speaking world. Students will also receive a complete grammatical review while acquiring additional advanced-level vocabulary.

FRENCH

French I

1 credit; year course

This course introduces the fundamental elements of the French language within a cultural context. Students acquire basic listening, speaking, reading, and writing skills while exploring the daily life of various French-speaking communities around the world. By the end of the year, they can use basic vocabulary and grammar to talk, read, and write about their family, food, school, daily routine, and major French customs.

French II

1 credit; year course

(Prerequisite: French I)

This course reviews and builds on the grammar, vocabulary, and cultural competency taught in French I to enhance conversational, listening, reading, and writing skills. Audio and video programs will be used to bring francophone cultures into the classroom and make the study of French a complete cultural and linguistic experience.

French II Honors

1 credit; year course

(Prerequisite: French I. By departmental recommendation)

French II Honors is designed to consolidate the language skills (listening, speaking, reading, and writing) that students have acquired in French I, as well as to introduce more complex grammatical structures and broader vocabulary. Students develop the ability to apply their language skills toward interpretive, presentational, and interpersonal communication. They continue to explore the cultures of the French-speaking world through videos, short documentaries, and informational texts.

French III

1 credit; year course

(Prerequisite: French II)

This intermediate course reviews and builds on the grammar, vocabulary, and cultural competency taught in French II to enhance conversational, listening, reading, and writing skills. Students explore the societies and cultures of the French-speaking world through a variety of authentic texts, interviews, commercials, documentaries, and short films. They make presentations, stage skits, converse with their classmates, and write short essays. By the end of the year, they can express themselves with simple but accurate grammar about present, past, and future events. Also, they have acquired enough vocabulary and cultural competency to compare their own community with the communities of the French-speaking world.

French III Honors

1 credit; year course

(Prerequisite: French II Honors. By departmental recommendation.)

This intermediate course is designed for students who are on track to take the AP exam. Students will expand upon their speaking, listening, reading, writing, and cultural skills through an accelerated study of vocabulary and grammar, numerous informational and short literary texts, as well as short movies, interviews, commercials, and news broadcasts. They will strengthen their oral fluency by making

presentations and engaging in spontaneous conversations. They will also write essays on various aspects of the cultural and social life of the French-speaking world. The class is taught mostly in French.

GC Advanced French Language and Cultures: Stories of Women in the Francophone World

1 credit; year course

(Offered 2020-2021.)

(Prerequisite: French III)

This course will explore a variety of stories about women, from Coco Chanel to the role of women in Africa to the successes and challenges of female artists, scientists and archaeologists, to gender roles in various francophone societies. This course is meant for students who wish to research, present and discuss a wide range of francophone topics and to expand upon their fluency and cultural literacy. The course will be taught in French. The curriculum will alternate so that students are not repeating the same material if they participate in this course for two years.

GC Advanced French Language and Cultures: A Global Perspective

1 credit; year course

(Not offered 2021-2022; Offered in alternate years.)

(Prerequisite: French III)

This course aims at placing the French language and francophone cultures in a global context. It will explore a wide range of topics, such as the influence of Islamic culture in Europe, the North African history behind Antoine de Saint-Exupéry's *Little Prince*, how the bilingual brain works, the history of the many French words in the English language, what linguistic variations tell us about French speakers and how gendered languages shape the way their speakers envision the world. This course is meant for students who wish to explore, research, present and discuss a wide range of francophone topics and to expand upon their fluency and cultural literacy. The course will be taught in French. The curriculum will alternate so that students are not repeating the same material if they participate in this course for two years.

GC French IV Honors/ V Honors/ AP French Language and Culture 1 credit; year course

(Prerequisite: French III Honors or French IV Honors. By departmental recommendation)

This advanced course is designed for students who have taken Honors French courses throughout the Upper School and who are on track to take the AP Language Exam. The French IV Honors students (typically juniors) will have two years to prepare for the Advanced Placement Exam while the French V AP students (typically seniors) will take the AP Language and Culture Exam at the end of the course year. Students in both classes will work towards further developing their speaking and listening skills as well as reading comprehension and written expression. They will explore the five AP topics (Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, and Families and Communities) through informational and literary sources spanning the French-speaking world. Students will also receive a complete grammatical review while acquiring additional advanced-level vocabulary.

LATIN

Through a framework of Roman civilization and classical mythology, the Latin program builds the skills that will enable students to read original Latin literature. *Cambridge Latin Course*, a reading-based

approach, is the foundation of the curriculum, and by Level III students begin to read selected works of Ovid, Catullus, Pliny, Martial, and Vergil. In all courses, the development of English vocabulary through Latin roots is stressed.

Latin I

1 credit; year course

Latin I introduces the fundamentals of Latin grammar (case, tense, sentence structure) through the reading-based approach of the Cambridge Latin Course. Following the daily life of a family in Pompeii, the stories build to the eruption of Mt. Vesuvius. Quintus, a survivor, travels to Roman Britain, and through his adventures, students begin to learn about life in the Roman provinces. In this course, students develop language awareness and learn to use the building blocks of Latin roots to strengthen English vocabulary.

Latin II

1 credit; year course

(Prerequisite: Latin I)

As the Cambridge Latin Course readings in Latin II grow more complex, the plot focuses on Quintus' adventures in the Roman provinces of Britain and Egypt. Building on the basics of Latin I, students further develop their knowledge of grammar and sentence structure, including relative clauses, participles, and subjunctive clauses. Building English vocabulary through Latin roots continues to be emphasized.

Latin II-Honors

1 credit; year course

(Prerequisite: Latin I. By departmental recommendation)

As the Cambridge Latin Course readings grow more complex, the plot focuses on Quintus' adventures in the Roman provinces of Britain and Egypt. Building on the basics of Latin I, students further develop their knowledge of grammar and sentence structure, including relative clauses, participles, and subjunctive clauses. Building English vocabulary through Latin roots continues to be emphasized. *Latin II-Honors moves at an accelerated pace and has heavy demands in terms of learning forms and vocabulary.*

Latin III

1 credit; year course

(Prerequisite: Latin II/II-Honors)

The action of the Cambridge Latin Course plot moves to the city of Rome where students read about the highs and lows of Roman imperial life. This course completes the study of Latin grammar, including more complex and idiosyncratic grammatical structures. By the end of the year, students are ready for a taste of original Latin literature (Martial, Ovid, Catullus, Vergil). Building English vocabulary through Latin roots continues to be stressed.

Latin III-Honors

1 credit; year course

(Prerequisite: Latin II-Honors)

The action of the Cambridge Latin Course plot moves to the city of Rome, and in this context students read about the highs and lows of Roman imperial life. This course completes the study of Latin grammar, including the more complex and idiosyncratic grammatical structures. During second semester, the focus is original Latin literature to prepare students for advanced work in Latin. Authors include Martial, Ovid, Catullus, and Vergil. Building English vocabulary through Latin roots continues to be stressed. *Latin III-Honors moves at an accelerated pace and has heavy demands in terms of learning forms and vocabulary.*

GC AP Latin

1 credit; year course

(Prerequisite: Latin III-Honors; by departmental recommendation)

Qualified students pursue the study of both Vergil's *Aeneid* and Caesar's *De Bello Gallico* preparing for the College Board Advanced Placement exam. This course provides an opportunity to enjoy in Latin the adventure, drama and romance of Vergil's great epic as well as to explore the crisp prose and strategic leadership of Julius Caesar. Through this experience students develop college-level facility in translation, literary interpretation, and critical analysis.

GC Latin Literature: Death of the Roman Republic: Power, Politics, and Public Disorder* *(offered in alternate years; not offered in 2021-2022)*

½ credit, semester course

(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

This literature course is for students who have mastered the study of advanced Latin grammar. Selections will include excerpts from Cicero's speech *In Catilinam*, Sallust's *Bellum Catilinae*, and Caesar's *Bellum Civile*. Some secondary source material will be read in translation. Through the careful reading of Latin texts, students will develop facility in translation, literary and historical interpretation, and critical analysis

Cross-listed in History.*GC Latin Literature: Laugh Like a Roman: Comedy, Satire, and Personal Insults****(offered in alternate years; not offered in 2021-2022)*

½ credit, semester course

(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

This literature course is for students who have mastered the study of advanced Latin grammar. Selections will include excerpts from playwrights Plautus and Terence, satirists Petronius and Juvenal, and masters of invective Catullus and Martial. Some secondary source material will be read in translation. Through the careful reading of Latin texts, students will develop facility in translation, literary and historical interpretation, and critical analysis.

Cross-listed in History*GC Latin Literature (Fall): Romance, Regret and Revenge: Tales of Love on the Rocks***

(Fall 2021)

½ credit, semester course

(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

A literature course for students who have mastered the study of advanced Latin grammar. Selections will include poems of Catullus, excerpts from Cicero's *Pro Caelio*, scenes from Ovid's *Metamorphoses* and Vergil's *Aeneid* (a preview of the poetry in the AP course). Through the careful reading of the Latin texts, students will develop and hone facility in translation, literary and historical interpretation, and critical analysis.

Cross-listed in History*GC Latin Literature (Spring): Enemies of Rome***

(Spring 2022)

½ credit, semester course

(Prerequisite: Latin III or III-Honors; this course is offered as a pre- or post-AP option.)

A literature course for students who have mastered the study of advanced Latin grammar. Readings will

focus on hostile reactions to Roman power and cultural influence as it dominated a growing empire. Selections will include excerpts from Caesar's *De Bello Gallico* (a preview of the prose in the AP course), Cicero's *In Catilinam*, Sallust's *Bellum Catilinae*, Livy's *Ab Urbe Condita*, Tacitus's *Annales*, and poems of Catullus and Horace. Students will develop and hone facility in translation, literary and historical interpretation, and critical analysis.

**Cross-listed in History*

Independent Study in Ancient Greek

1 credit; year course

(Prerequisite: advanced level Latin. Requires application and permission. Offered based on enrollment.)

A course in the basics of ancient Greek for qualified advanced level Latin students.

SPANISH

Spanish I

1 credit; year course

This course introduces the fundamental elements of the Spanish language within a cultural context. Students acquire basic listening, speaking, reading, and writing skills while exploring the daily life of various Spanish-speaking communities around the world. By the end of the year, they can use basic vocabulary and grammar to talk, read, and write about their family, food, school, daily routine, and major Hispanic customs.

Spanish II

1 credit; year course

(Prerequisite: Spanish I)

This course reviews and builds on the grammar, vocabulary, and cultural competency taught in Spanish I to enhance conversational, listening, reading, and writing skills. Audio and video programs will be used to bring Hispanic culture into the classroom and will help make the study of Spanish a complete cultural and linguistic experience.

Spanish II Honors *(Prerequisite: Spanish I. By departmental recommendation)*

1 credit; year course

Spanish II Honors is designed to consolidate the language skills (listening, speaking, reading, and writing) that students have acquired in Spanish I, as well as to introduce more complex grammatical structures and broader vocabulary. Students develop the ability to apply their language skills toward interpretive, presentational, and interpersonal communication. Audio and video programs will be used to bring Hispanic culture into the classroom and will help make the study of Spanish a complete cultural and linguistic experience.

Spanish III

1 credit; year course

(Prerequisite: Spanish II)

This intermediate course is designed to consolidate the skills (listening, speaking, reading, and writing) that students acquired in Spanish II, as well as to introduce more complex grammatical structures and broader vocabulary. Students will build their cultural competency by exploring the societies and cultures of the Spanish-speaking world through a variety of texts and visual aids. They will also develop the ability to apply their language skills through interpretive, presentational, and interpersonal practice.

Spanish III Honors

1 credit; year course

(Prerequisite: Spanish II Honors)

This intermediate course is designed for students who are on track to take the AP exam. Students will expand their speaking, listening, reading, and writing skills through an accelerated study of vocabulary and grammar, numerous informational and short literary texts, and various audiovisual materials, all allowing for an increased cultural awareness. They will strengthen their oral fluency by engaging in spontaneous conversations on a daily basis and will write short compositions.

GC Spanish IV

1 credit; year course

(Prerequisite: Spanish III)

This upper intermediate course is designed for students who wish to continue studying Spanish beyond the required Level III course. Students will continue to focus on reading, writing, listening, and speaking skills while acquiring new vocabulary, reviewing grammar covered in previous years, and learning more advanced grammatical structures. The primary goal of this course is to strengthen the students' reading skills and oral and written communication. Students will read a variety of authentic materials and watch short films related to the history, culture, and current events of the Spanish-speaking world.

GC Spanish IV Honors

1 credit; year course

(Prerequisite: Spanish III Honors)

The Spanish IV Honors course is intended for students who wish to develop proficiency and integrate their language skills using authentic materials. Its primary goal is to strengthen the students' language skills and to develop their cultural competency. Students demonstrate their level of Spanish proficiency across three communicative modes: interpersonal, interpretive, and presentational. The course is designed for students who want to continue with the AP Language and Culture Course the following year.

GC Spanish V

1 credit; year course

(Prerequisite: Spanish IV)

Spanish V is a course designed for students who have successfully completed the Level IV course and who are passionate about continuing the study of Spanish. Students will put into practical use all the skills acquired in their previous years of learning Spanish while working to achieve a higher level of fluency through reading, writing, listening, and speaking. Students will continue to focus on vocabulary acquisition, learn the more advanced grammatical structures of the Spanish language, and strengthen their reading, oral, and writing skills. Students will also take a more in-depth look at the history, culture, and current events of the Spanish-speaking world through movies, short films, newspaper articles, short stories, and novels.

GC AP Spanish Language and Culture

1 credit;

year course

(Prerequisite: Spanish IV Honors; by departmental recommendation)

The AP Spanish Language and Culture course is intended for students who already have extensive knowledge of the language and culture of Spanish-speaking communities and have attained a reasonable proficiency in listening comprehension, speaking, reading and writing. Students develop a strong command of the Spanish language by integrating the three modes of communication: interpersonal, interpretive, and presentational. The course focuses on the integration of authentic resources with the goal of providing a rich, diverse learning experience. Resources include online print, audio and audiovisual

materials, literature, essays, and articles from magazines and newspapers. The course is divided into thematic units and guided by essential questions.

GC AP Spanish Literature and Culture*

1 credit; year course

*Offered through One Schoolhouse/Online School for Girls 2021-2022

(Prerequisite: AP Spanish Language and Culture; by departmental recommendation)

See page 56.

MATHEMATICS

The Mathematics Department believes that students need to have mathematical competency and confidence to be able to participate fully in modern society. We wish to develop in all students the analytical and technical skills that will prepare them for a college education, to develop their understanding of the underlying concepts of mathematics, to foster independent thinking, to increase enjoyment of the subject, and to help every student attain the self-confidence that comes from genuine achievement.

Requirements and Recommendations:

- The study of mathematics is required at least through junior year.
- Each student is required to complete at least 3 credits of mathematics in grades 9 through 12 and is strongly encouraged to take mathematics each year.
- Every student must complete at least Algebra I and II and a year of Geometry.

Algebra I

1 credit; year course

A thorough study of basic algebra, focusing both on symbolic manipulation and applied problem-solving. Topics include the four arithmetic operations with real numbers and variables; equations and inequalities; graphs and functions; polynomials and factoring; irrational numbers and radicals; and quadratic functions.

Geometry (with Algebraic Thinking)

1 credit; year course

(Prerequisite: Algebra I)

This course provides an introductory geometry course integrated with an intensive review of elementary algebra. Intended for students whose background in algebra needs additional support, this course covers points, lines, planes, angles, parallel and perpendicular lines, triangles, quadrilaterals, polygons, congruence and similarity, inequalities in triangles, right triangles, circles, area and volume, and coordinate geometry. The nature of deductive proof and the structure of a mathematical system will be explored throughout the course.

Geometry

1 credit; year course

(Prerequisite: Algebra I; by Departmental permission)

A rigorous study of Euclidean geometry including points, lines, planes, angles, parallel and perpendicular lines, triangles, quadrilaterals, polygons, congruence and similarity, inequalities in triangles, right triangle trigonometry, circles, area and volume, and coordinate geometry. The nature of deductive proof and the structure of a mathematical system are emphasized throughout the course.

Geometry & Trigonometry Honors 1 credit; year course
(Prerequisite: Algebra I ; by Departmental permission)
A deeper treatment of all the geometry topics listed above, including more extensive study of trigonometry and coordinate geometry.

Algebra II 1 credit; year course
(Prerequisite: Geometry with Algebraic Thinking)
This intermediate algebra course includes the topics of real numbers, linear equations and inequalities, systems of linear equations and inequalities, polynomials, rational expressions, graphs and functions, factoring, radicals, complex numbers, quadratic and polynomial equations, and exponents.

Algebra II & Trigonometry 1 credit; year course
(Prerequisite: Geometry; by Departmental permission)
This advanced algebra course includes the topics of real numbers, linear equations and inequalities, systems of linear equations and inequalities, polynomials, rational expressions, graphs and functions, factoring, radicals, complex numbers, quadratic and polynomial equations, exponents, logarithms, and triangle trigonometry, including Law of Sines and Law of Cosines.

Algebra II & Trigonometry Honors 1 credit; year course
(Prerequisite: Geometry & Trigonometry Honors; by Departmental permission)
For qualified students, this course includes all the above Algebra II & Trigonometry topics in greater depth and also covers variation and trigonometry and their applications. Trigonometry topics will include triangle trigonometry, circular functions, and radian measure.

Functions & Trigonometry 1 credit; year course
(Prerequisite: Algebra II)
This course provides a comprehensive review of algebraic topics including polynomial, rational, radical and exponential functions and introduces logarithmic functions and trigonometry.

Precalculus 1 credit; year course
(Prerequisite: Algebra II & Trigonometry; by Departmental permission)
This course covers more advanced algebra topics and trigonometry. Major topics are linear, quadratic, polynomial, rational, exponential and logarithmic functions and their graphs, inequalities, general properties of functions, properties and graphs of the trigonometric functions, the inverse trigonometric functions, trigonometric equations and applications, triangle trigonometry, trigonometric formulas and identities, and limits.

Precalculus Honors 1 credit; year course
(Prerequisite: Algebra II & Trigonometry Honors; by Departmental permission)
The focus of this course is the concept and applications of functions. Trigonometry is covered in depth: trigonometric equations and their applications, triangle trigonometry, and trigonometric addition formulas. Other Precalculus topics are polar coordinates and complex numbers, sequences and series, and vectors and determinants. The following calculus topics are studied: limits and their properties, differentiation rules, the applications of differentiation.

GC Statistics

1 credit; year course

(Prerequisite: Algebra II)

This introductory course will emphasize conceptual understanding and applications of statistics; computations, plotting, and regressions will be done on the TI-83/84 graphing calculator. Topics will include organization and analysis of data, averages and variation, regression and correlation, probability, normal curves, distributions, estimation and inference. This course may be taken either as an elective or as a student's sole math class.

GC Statistics: Descriptive

½ credit; 1st semester

(Prerequisite: Algebra II)

This introductory course will emphasize conceptual understanding and applications of statistics; computations, plotting, and regressions will be done on the TI-83/84 graphing calculator. Topics will include organization and analysis of data, averages and variation, regression and correlation, and probability.

GC Statistics: Inferential (not offered 2021-2022)

½ credit; 2nd semester

(Prerequisite: Descriptive Statistics)

This course will continue to emphasize conceptual understanding and applications of statistics; computations, plotting, and regressions will be done on the TI-83/84 graphing calculator. Topics will include 42 normal curves, distributions, estimations, and inference.

Calculus

1 credit; year course

(Prerequisite: Precalculus)

An introduction to differential and integral calculus within the larger context of the function. Major topics are functions, limits, derivatives, applications of differentiation, and integrals and their applications. Students will strengthen their understanding of Precalculus mathematics and be prepared for college calculus.

W AP Calculus AB

1 credit; year course

(Prerequisite: Honors Precalculus or Precalculus; by Departmental permission)

A college-level calculus course covering the basic theory and applications of the derivative and integral. Students who take this course will be expected to take the Advanced Placement Calculus AB examination.

W AP Calculus BC

1 credit; year course

(Prerequisite: Honors Precalculus; by Departmental permission)

This more advanced college-level calculus course includes, in addition to the topics of the AB course, advanced techniques of integration, infinite series, and calculus with parametric, polar, and vector-valued functions. Students who take this course will be expected to take the Advanced Placement Calculus BC examination.

W Advanced Calculus and Linear Algebra

1 credit; year course

(Prerequisite: AP Calculus BC and departmental recommendation)

This course will cover some topics that are not part of the AP Calculus BC curriculum, such as hyperbolic

functions, centers of mass and centroids, among others. We will also explore topics that are studied in Multivariable Calculus, Differential Equations and Linear Algebra. Some of the Multivariable topics include vectors and vector valued functions, differentiation in several variables, optimization in several variables, multiple integration, and line and surface integrals. In addition, Differential Equations topics will include solving first order and simple higher order equations with applications to various scientific fields, laws of planetary motion, fundamental theorems of vector analysis, solving linear differential equations and their applications, and Laplace transform methods. Finally, some of the Linear Algebra concepts covered will be vector spaces, linear transformations, matrices, systems of linear equations and determinants. A student who is qualified for this course should be prepared for independent study.

W GC AP Statistics

1 credit; year course

(Prerequisite: Successful completion of Algebra II & Trigonometry; by Departmental permission)

This course is a non-calculus-based, college-level course in statistics. Students planning collegiate studies in the physical sciences, social sciences, or business fields should consider taking this course. AP Statistics focuses on four conceptual themes: exploring data, planning a study, anticipating patterns, and inference. This course is designed to provide students with opportunities to design, administer, tabulate and analyze results from surveys and experiments. This course will also help students develop their analytical reading and writing capabilities. Students who take this course will be expected to take the Advanced Placement Statistics examination.

PHYSICAL EDUCATION AND ATHLETICS

Physical Education Requirement and Options

The Physical Education Department provides an opportunity for physical activity for each student and requires participation in all classes specific to each area of study. Students are encouraged to develop positive habits and attitudes toward fitness and healthful living through these classes. The Athletic Program attempts to provide students with many opportunities to compete in a sport at a level appropriate to the student's skill and experience while keeping safety in mind. Through participation on a team, the student is encouraged to develop favorable attitudes of competition, sportsmanship, responsibility, loyalty, and a sense of contribution to group effort. Every effort will be made to provide multiple levels of team opportunities (V, JV); however, participation and numbers and/or league sponsorship may preclude some teams from being sponsored by Garrison Forest School.

UPPER SCHOOL PHYSICAL EDUCATION REQUIREMENTS

All physical education activities have a value of one (1) point:

- Interscholastic sports
- Physical education classes
- Dance
- On-campus riding instruction (3 lessons per week)
- Polo
- Approved independent physical education

Each student entering Garrison Forest Upper School as a freshman must complete six (6) points of participation before the conclusion of her junior year.

Students new to Garrison Forest Upper School as sophomores must complete four (4) points of participation before the conclusion of their junior year.

Students new to Garrison Forest Upper School as juniors must complete two (2) points of participation before the conclusion of their junior year.

If a WISE student has not already completed her graduation requirement, she is expected to participate in physical education class on days when she does not have off-campus WISE responsibilities.

Fall options:

- Tennis Team
- Field Hockey Team
- Cross Country Team
- Volleyball Team
- Soccer Team
- Dance
- Riding Team (fee)
- Riding Lessons (fee)
- Polo (fee)
- PE Class
- Independent PE (with PE Chair approval)

Winter Options:

- Basketball Team
- Indoor Soccer Team (fee)
- Indoor Track Team
- Dance
- Riding Team (fee)
- Riding Lessons (fee)
- Polo (fee)
- PE Class
- Squash Team (fee)
- Independent PE (with PE Chair approval)

Spring Options:

- Badminton Team
- Lacrosse Team
- Softball Team
- Dance

- Golf Team (fee)
 - Polo (fee)
 - Riding Team (fee)
 - Riding Lessons (fee)
 - Independent PE (with PE Chair approval)
- ❖ Students may only participate in one activity per trimester for credit;
 - ❖ Once a team roster is posted, students are committed to that activity.

A student may miss a maximum of one PE class. Any additional missed classes must be made up in a physical activity approved by the PE Department Chair. Students who do not meet the Physical Education requirement will fail the class for the trimester and must make up the work satisfactorily in order to receive credit for the class. The student will meet with the Chair of the Physical Education Department to determine when and how the work will be made up.

Independent Physical Education *(requires formal written request and permission from Department)*

Program criteria and guidelines include:

- The activity/discipline is not available at Garrison Forest School OR
- A student requesting an Independent Study in an activity / discipline that Garrison Forest offers must first represent Garrison Forest on that team. (A student not representing Garrison Forest School in an interscholastic sport will not be granted an independent study in that discipline)
- At least 2 hours of the proposed activity per week and at least 2 years of involvement in this activity prior to the request for independent status.
- The activity must be supervised by a certified or qualified professional in the field.
- The activity does not occur during the same competitive season at Garrison Forest School.
- A list of dates, times and locations for competitions/performances is included in the proposal for the trimester credit requested.

Students are expected to participate in Garrison Forest Physical Education classes until their request for credit is granted.

DANCE

The Upper School Dance program is a technique-based, challenging after-school program in which students focus on the development of strong dance skills, build self-confidence, and explore artistic self-expression. Three levels of dance are offered: Beginner, Intermediate, and Advanced. These three levels offer students the opportunity to learn dance discipline and performance skills through the study of jazz, ballet, and lyrical/contemporary dance styles. Each class is structured to include warm-up exercises, center combinations, and locomotor movement patterns that require significant physical exertion and concentration. Opportunities for performance include informal showings throughout the year and a full concert production in the spring. All students taking dance in the spring season are required to perform in the spring concert and attend all tech rehearsals the week of the performance. In addition, students are encouraged to attend professional performances as scheduled by the instructor. Some out-of-class rehearsals will be required of Intermediate and Advanced students in preparation for performances. Students earn points toward their Physical Education credit for each season of Dance.

Beginner Dance Grades 9-12

Fall, Winter, Spring

(No audition necessary)

Beginner Dance is offered Tuesdays and Thursdays from 3:30-4:30pm. The primary goals of Beginner Dance are to foster the understanding of dance as an aesthetic, kinetic art form and to introduce elements of jazz, ballet, and contemporary dance styles in a studio setting. Students will learn to prepare the body for dance through a warm-up incorporating strengthening and stretching exercises. They will learn basic ballet leg work and positions, turns and leaps, modern dance and jazz curvature and contraction of the torso, and short dance combinations. Students in the second semester will learn and perform a complete dance from start to finish. Students with no prior dance experience do not need to attend the placement class held prior to the start of the semester.

Intermediate Dance Grades 9-12

Fall, Winter, Spring

(Placement audition or permission of instructor)

Intermediate Dance meets Tuesdays and Thursdays from 4:30-5:45 pm and is offered to students who have some prior dance experience or who have made significant progress in the Beginner course. Year-long participation is strongly encouraged, but not required. Students placed at the Intermediate level build on the foundation of basic dance elements, continue to study ballet technique, explore dance combinations that are increasingly complex and expand into complete dances, and focus on dance as a performing art. This course strongly emphasizes performance and will include performances throughout the year as well as a full-length two-evening production in the spring. Intermediate Dance students are required to attend some out-of-class rehearsals on a very occasional basis in preparation for performance.

Advanced Dance Grades 9-12

Year-long course

(Placement audition or permission of instructor)

Advanced Dance meets Mondays from 4:00-5:30 pm and Wednesdays from 3:30-5:00 pm and Fridays as needed. It is offered to students who have strong technique and experience and/or those who have made significant progress in Intermediate Dance. Advanced Dance functions as both a technical class and a company rehearsal for in-depth choreography to be performed later in the year. This course is designed to develop discipline and performance skills through serious and concentrated study of dance technique in jazz, ballet, and lyrical/contemporary dance styles. This course strongly emphasizes performance and will include performances throughout the year as well as a full-length two-evening production in the spring. Students are required to attend out-of-class rehearsals occasionally in preparation for performances or as needed when working with guest choreographers. Because of the rigorous nature of this company-level class, year-long participation, beginning in the fall, is required. Exceptions will only be considered if a student is currently taking dance outside of school, has extensive prior dance experience, and has received permission from the instructor.

Blue Allegro Grades 9-12 *(By audition or invitation)*

Blue Allegro is the performing company of Advanced Dance, which develops professional approaches to rehearsals and performances. Students work in the corps as well as soloists while being exposed to a variety of styles, choreographers, repertoire, and music. The company attends the annual Independent Dance Network Festival and the Maryland Dance Alliance as well as performing on campus throughout the school year. A student must have reached the advanced level, have extensive prior dance experience, and show strong leadership qualities.

PUBLIC SPEAKING

Dialogue & Debate Grade 9

non-credit; semester course

(Required of all ninth graders)

This required 9th grade course focuses on two foundational skills: speaking and listening. The “Dialogue” portion of the course emphasizes the skills needed to engage in constructive conversations designed to build understanding and connection across differences in beliefs, perspectives, and identities. Students will learn how to express themselves and their worldviews---as well as listen to those of others--both authentically and respectfully, in ways that further self-awareness and empathy and support the process of identifying and resolving conflict.

The “Debate” portion of this course emphasizes the art of public speaking, and exposes students to the skills required both to craft and to present a speech. Students will learn how to choose language tailored to audience, purpose, and context, with attention to tone and the fundamentals of argumentation. This course will develop students’ oral and performance expression skills through the planning and practice of both extemporaneous and persuasive speaking and build proficiency in skills such as collaboration, reflection, and self-regulation.

This course is part of the broader ninth grade curricular focus on interpersonal skill development, metacognition, and communication. To the extent possible, Dialogue & Debate will build on the exploration of facets of human civilization and global citizenship covered in World History I so that students have an additional opportunity to foster their own sense of imagination and empathy.

SCIENCE

The goal of the science department is to have each student become scientifically literate. To that end, all courses are laboratory-oriented and stress the ability of the student to experience opportunities to develop critical thinking skills using the logical, scientific mode of reasoning which will prepare them for future, lifelong learning. It is our hope that each student will emerge with enthusiasm and appreciation for science and its dynamic, changing nature, and with awareness of global concerns and current issues.

Requirements and Recommendations:

- The Science Department recommends the appropriate course for a student.
- All students are required to complete 3 credits of lab-based science courses in the Upper School.
- Students must take Biology, Chemistry and Physics.

Biology Grades 9, 10

1 credit; year course

A study of basic biological principles with an emphasis on the place of humans in the biosphere, the relation of human physiology to medical conditions, and the ethical and social implications of biological decisions. The topics covered include basic chemistry, respiration, photosynthesis, cell structure and function, human anatomy and physiology, genetics, evolution and ecology. Laboratory is an integral part of the course, and provides students the opportunity for hands-on experiences in the field of biology.

Beyond mastery of subject matter, the most important goal is to encourage an appreciation for life, a sense of wonder, and an understanding of the complexity and efficiency of living things.

Chemistry Grades 10, 11 1 credit; year course
(Prerequisite: Biology)

Chemistry is an introduction to the chemical and physical properties of matter. The goal of this course is to enable students to discover the principles of chemical behavior and their applications to the world. Topics include atomic and molecular structure, states of matter, chemical and physical behavior of elements and compounds, solution chemistry, kinetics, equilibrium, thermochemistry, and acid-base chemistry. Emphasis is placed on development of good qualitative skills.

Honors Chemistry Grades 10, 11 1 credit; year course
(Prerequisite: Biology. Completion of Geometry recommended)

Honors Chemistry covers the same topics as Chemistry but information is covered in greater breadth and depth. Topics are emphasized through a deeper laboratory and quantitative approach. This course is recommended for students interested in pursuing science at the college level, entering STEM-related career, or planning to take AP Biology or AP Chemistry.

Physics Grades 11, 12 1 credit; year course
(Prerequisite: Chemistry and Algebra II or Algebra II concurrently)

This introductory course in physics assumes a background in Algebra and Geometry. Trigonometry is presented and used throughout the course. Topics covered include Newtonian mechanics (kinematics and dynamics), energy, waves and optics. Laboratory work for introducing and applying concepts is an integral part of the course. Building and computer projects offer opportunities to apply the analytical and problem solving skills that are emphasized.

Honors Physics Grades 11, 12 1 credit; year course
(Prerequisite: Honors Precalculus concurrently or recommendation)

Students will gain an understanding of core physics principles and then apply them to problem-solving exercises and experimental investigations. Extensive use of trigonometry and algebra will be used to analyze two-dimensional motion. Topics of study from classical and modern physics include Newtonian mechanics, electricity and magnetism, and waves. Laboratory work is an integral component of this course. Technology including scientific calculators, probeware, graphing and data analysis software, and physics apparatus is used throughout this course.

Honors Physics with Calculus Grades 11, 12 1 credit; year course
(Prerequisite: AP Calculus AB or AP Calculus BC concurrently. B+ or higher average in previous science and math courses)

In this demanding course, students will gain an understanding of core physics principles and then apply them to problem-solving exercises and experimental investigations using advanced mathematical methods, including calculus. Topics of study from classical and modern physics include Newtonian mechanics, electricity and magnetism, and waves and optics. Laboratory work is an integral component of this course. Technology including scientific calculators, probeware, graphing and data analysis software, and physics apparatus is used throughout this course.

W Biotechnology / Forensic Science Grade 12 1 credit; year course

(Prerequisite: Successful completion of Biology and Chemistry)

Biotechnology: Forensic Science is a laboratory based course involving scientific investigation using microscopy, chromatography, comparative analysis techniques, electrophoresis, spot tests, and qualitative analysis examinations. The focus is on problem solving, designing experiments, testing, and making conclusions based on empirical evidence. Writing is an integral part of the course with students being expected to communicate laboratory reports, results, and conclusions, and analyze case studies. The study of forensics incorporates the use of science and technology to investigate and establish facts in criminal and civil courts of law. It uses methods of science to help “solve” crimes and bring criminals to justice. Forensic Science is an interdisciplinary class designed to introduce students to the field of forensics by the use of concepts in many areas including biology, chemistry, zoology, anatomy, genetics, physics, Earth Science, and statistics.

W Ecology, Evolutionary Biology, and Behavior Grades 11, 12 1 credit; year course

(Prerequisite: Chemistry)

This course will allow students to discover the behavioral and physiological characteristics of the animals. Students will explore the purpose behind the many curious actions of animals, as well as explore the amazing diversity of life on our planet. The class will employ lecture, lab work and campus field work to better understand the nature of the world around us. Lecture sessions will center on the evolutionary foundations of behavior and morphology, how form relates to function, as well as the fundamentals of ecology and taxonomy. Assessments have a particular focus on application of class material to form hypotheses and design experimental procedures, with the goal of “doing science” rather than just learning about science. Lab and field work will accentuate understanding of class topics and promote a sense of natural wonder.

W AP Biology Grades 11, 12 1 credit; year course

(Prerequisite: Biology and Chemistry, and departmental permission)

The course studies the fundamental biological principles. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes—energy and communication, genetics, information transfer and ecology. The equivalent of a two-semester college-level Biology course, AP Biology is designed to prepare students for the AP exam and for further study in science.

W AP Chemistry Grades 11, 12 1 credit; year course

(Prerequisite: Biology, Chemistry and Algebra II and departmental recommendation)

This course will allow students to attain a depth of understanding of fundamentals and competence in dealing with chemical problems. It integrates the three aspects of a college level course: development of theoretical concepts, construction of problem-solving techniques, and participation in a laboratory program. The course will contribute to the development of the students’ abilities to think clearly and to express their ideas, mathematically and in writing, with clarity and logic. The equivalent of a two semester college-level Chemistry course, AP Chemistry is designed to prepare students for the AP exam and for further study in science.

W GC AP Environmental Science Grade 12 (Grade 11 with permission) 1 credit; year course

(Prerequisite: Biology, Chemistry, Algebra II)

The AP Environmental Science course provides students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The course will involve ongoing lab inquiry and fieldwork analysis, allowing for a systematic and scientific study of the environment and our role in it. Environmental Science is interdisciplinary; it will embrace a wide variety of topics from different areas of study. The equivalent of an introductory college level Environmental Science course, AP Environmental Science is designed to prepare the student for the AP exam.

W GC Engineering Design* Grades 10, 11, 12 1 credit; year course

This course uses the E4USA Engineering For Us All curriculum developed in partnership with five major US university engineering departments. The curriculum itself has four primary focuses: discovering engineering, engineering in society, engineering professional skills and engineering design. The backbone of this course is active, hands-on learning of problem-solving, collaboration, and communication skills that can be applied and adapted to different environments; it emphasizes developing as an empathetic engineer.

*Cross-listed in Computer/Technology

W GC Biochemistry, Microbiology and Public Health Research (Honors) - Small World Initiative
Grades 11, 12 1 credit; year course

(Prerequisite: departmental permission)

Microorganisms that surround us coexist with or without causing harm and can even be isolated and used to produce drugs such as antibiotics. A portion of the course will be dedicated to learning university-level research techniques used to discover and produce new antibiotics. The project entails: isolation and classification of new antibiotic producing bacteria species, extraction and analysis of novel antibiotic compounds, and student designed experimentation. Students will enhance their lab experiences by learning about the microbiological world, mechanisms of antibiotic action and the development of antibiotic resistance in the context of basic biochemical processes. In addition, we will discuss viruses, how they lead to human disease, and the role of public health as it relates to infectious diseases.

W The Science of Art* Grades 10, 11, 12 ½ credit; semester course
(Not offered 2020-2021)

Art and Science have always been a dynamic duo. Focusing on the science of art production and the scientific skills of investigation and experimentation, students will explore the fascinating territory in which the arts and science mingle. We will touch on each of the three major subjects in science; Chemistry, Biology and Physics and view them through an artistic lens. Using the collection at the Walters Art Museum, we will investigate several collection areas including: antiquities, manuscripts, pottery, textiles and metal. In this course, scientific theories will be presented and students will experiment with art materials to explain and explore those theories. These findings will be documented in a creative journal, which will be one of the main assessments of understanding. In addition, students will create an art piece that interprets one of the scientific theories discussed and will be asked to solve challenge problems that stretch the understanding of both material and theory.

*Cross-listed in Visual Art

Studio fee: \$25

W Women in Science and Engineering Program (WISE)

½ credit; semester course

Grades 11, 12

(Prerequisites: Chemistry and Algebra II, unless placement warrants an exception, and grades of B- or higher in all courses within, at minimum, the semester prior to participation, evidence of the academic habits necessary for success in the program while maintaining grades in core courses, and an overall curricular and co-curricular program that is approved by the WISE faculty. Admission requires an application, participation in the WISE selection process, and recommendation by WISE faculty based upon motivation, maturity, academic strength, and capacity to succeed in program.) (Additional fee)

WISE is an experiential learning opportunity in which students are assigned to a faculty mentor at Johns Hopkins University and participate in hands-on research in their mentor's lab or research site at Johns Hopkins. WISE emphasizes three key learning areas: WISE students (1) learn about the scientific method applied in real-world science (or comparable system of inquiry used in other fields); (2) learn about both a specific area of inquiry and a broad array of disciplines in a major research university; and (3) learn how to be a contributing member of a research team. WISE students fulfill academic assignments, maintain an electronic portfolio, prepare and deliver a final presentation on their work at GFS and at JHU, participate in an annual poster session at GFS, and participate in a service learning element.

Placements are available with faculty in JHU's Whiting School of Engineering, Krieger School of Arts and Sciences, Bloomberg School of Public Health, and School of Medicine. Customized placements in other JHU arenas may be available. Participation is typically for 1st or 2nd semester, although a student may continue beyond this time period based on her interest and her mentor's availability. Students with school-year enrollment conflicts may be considered for a non-credit, condensed summer WISE option.

The WISE selection process, WISE orientation and research seminars, and a WISE "boot camp" prepare and support WISE students for their first month in the program, prior to beginning research, and once a cycle after work at JHU begins.

WISE participation does not require residency on campus; WISE students interested in boarding explore the option through the Residential Life office.

Complete information on the program is available [on the GFS website](#) and from the Director of the James Center/Dean of Special Programs, who can assist students with specific scheduling issues, including 3-season athletes and a few others who may need a special summer WISE placement.

STUDENT SUPPORT

Academic Resources Course (ARC) Grade 9

non-credit; year course

This course, which meets once per cycle, offers academic support to students who are new to the Upper School and have been identified as needing support. Basic "survival skills" will be taught, including organization, time management, reading comprehension, note-taking, test-taking strategies, and exam preparation. This interdisciplinary approach to the school curriculum will reinforce what is happening in the classroom, such as identifying the main ideas in a reading for history, connecting and visualizing concepts in biology, or memorizing vocabulary and grammar in a foreign language.

ONLINE COURSES

Online providers, such as One Schoolhouse/Online School for Girls (of which Garrison Forest School is an affiliate member), are an increasingly prevalent form of education. GFS views use of online courses as an important enhancement to the learning experience of its students in certain situations. Circumstances in which online coursework may be pursued in addition to, or instead of, a classroom course, include:

- To address scheduling needs created by enrollment in a special program, such as WISE;
- To address sequence needs, when a student has moved beyond the highest level course available at GFS;
- To address a compelling and demonstrated interest in taking a course not offered by GFS, as in approved independent study.

In the Upper School, students may request enrollment in an online course or be recommended for one by their advisor. Requests will be reviewed by the Upper School Dean of Academic Development along with the Head of Upper School, College Counselors, relevant Department Chairs and others to assess whether to approve it. Considerations include:

- The educational needs of the student;
- The availability of classroom course options;
- The availability of appropriate learning support for the student;
- The student's readiness for an independent learning experience;
- The course's comparability in content and rigor to GFS courses.



In partnership with [One Schoolhouse/Online School for Girls](#), Garrison Forest School offers the approved courses listed below. All OSG course enrollments must be approved by the Dean of Academic Development and relevant Department Chair.

AP Computer Science A Grades 10, 11, 12 elective

1 credit, year course

Prerequisite: *Successful completion of a One Schoolhouse computer programming course or permission from the OS administration.*

The AP® Computer Science A course introduces the key concepts of programming in Java. The analytical, critical-thinking, and problem-solving skills that students will develop in this course transfer to programming in other languages as well. This course is designed with the idea that programming should be fun, engaging, and intuitive. Students will learn to apply the main principles of object-oriented software design and programming using classes and objects, constructors, methods, instance and static variables, inheritance, class hierarchies, and polymorphism. Students work creatively and collaboratively with their classmates to discuss ethical and social issues relating to the use of technology, and develop a solid foundation from which to launch into a wide range of computer science areas. This course prepares

students for the AP® Computer Science A Exam in May.

AP Macroeconomics Grades 11, 12 elective

1 credit, year course

Prerequisite: Successful completion of Algebra II / Trig or higher math

AP® Macroeconomics introduces students to major economic issues such as basic market analysis, the causes of the cycle of economic growth and recession, the problems of inflation and unemployment, the causes and consequences of federal budget deficits, and the causes and effects of international trade imbalances and currency fluctuations. Students analyze the impact of fiscal and monetary policies as well as the debates surrounding the implementation of each. This course involves extensive reading, problem-solving exercises, online discussions, and research and writing about contemporary macroeconomic issues. Multiple modalities are employed for content presentation so as to encourage personalization; assessment evaluates each student's ability to utilize skill sets related to economic decision making. Strong reading, algebra, and analytical skills are necessary for success, as is strong motivation. AP® Macroeconomics develops informed, thoughtful, and globally-minded students, and thoroughly prepares students to take the AP® exam in the spring. AP® Macroeconomics is recommended for juniors and seniors.

AP Microeconomics Grades 11, 12 elective

1 credit, year course

Prerequisite: Successful completion of Algebra II / Trig or higher math

AP® Microeconomics gives students an understanding of how limited resources and unlimited wants result in the need to make choices, both individually and collectively. Students will learn why private markets and the price mechanism lead to an efficient allocation of resources in a market-based economy. Market structure, market failure, natural resource markets, and the role of government are included. Students analyze societal issues through the lens of economic reasoning, develop critical thinking skills through the understanding and analysis of fundamental economic concepts, and increase their ability to analyze information and draw conclusions from a wide variety of real-world situations. Students complete collaborative assignments, group discussions, and assessments that require them to apply what they have learned to hypothetical situations. The curriculum is developed to prepare students for the AP® Microeconomics Exam in May. The course is recommended for 11th and 12th graders with strong mathematical reasoning skills and an interest in economics, finance, business, or government policy.

GC AP US Comparative Government and Politics

Grade 12 elective

1 credit, year course

Prerequisites: US History, Departmental permission

AP US and Comparative Government and Politics is a yearlong course that provides students with an in-depth understanding of the American government as well as various political systems around the world. The fall focuses on American government, including how different agencies within the government interact, and how these agencies and their policies affect the daily lives of Americans. The spring covers AP Comparative Government and Politics, which is an introduction to the methodology of comparative politics, and an in-depth look at six different states: Iran, Nigeria, China, Russia, Mexico, and Great Britain. Students will understand what factors contributed to the development of the American political system, and the structure of the U.S. government and the American political process. They will also recognize major comparative political concepts and how to apply them. Finally, students will be able

to compare political institutions and processes from across the world, and to form sound conclusions based on those comparisons. Students in this course will be expected to take both AP® Government exams in the spring.

AP Music Theory

1 credit, year course

Prerequisite: Ability to read at least one clef of music and proficiency in an instrument or voice

AP® Music Theory is an intensive, fast-paced course which aims to increase students' overall musicianship and prepare them for the AP® Music Theory Exam. Students will begin to look at music on a deeper level and relate theory to their personal instrument, experiencing growth in performance and technicality. There are both aural and analytical components to the class: students will learn to sight sing, analyze a variety of genres, and strengthen their ear. Students will have the chance to compose and perform original compositions as well as explore different fields of the music world. AP® Music Theory starts with the basics (clef reading, scales, and chords) and continues all the way up to a college-level theory course (harmonic and form analysis, modulation). This is a crucial course for students looking to pursue music professionally or for anyone who wants to pursue their passion in music. AP® Music Theory students often pass out of entry-level theory classes in college and use this course to help them on theory entrance exams.

GC AP Spanish Literature and Culture*

1 credit, year course

*Offered through One Schoolhouse / Online School for Girls 2021-2022

Prerequisite: AP Spanish Language and Culture; by departmental recommendations

The AP® Spanish Literature and Culture course provides a college-level survey of texts from Peninsular, Latin American, and U.S. Hispanic authors. In addition to the texts from the College Board required reading list, students will interpret the works within their social, literary, and historical contexts and consider the reasons these works remain relevant in the 21st century. Students build an understanding of form, structure, theme, and literary devices, and then analyze and evaluate the global interdependence that fosters the evolution of Hispanic and Latino literatures. The course is conducted entirely in Spanish and organized around the six themes designated by the AP® curriculum framework. This course prepares students for the AP® Spanish Literature and Culture Exam in May.

ACADEMIC CREDIT FOR COURSES AND SPECIAL PROGRAMS OUTSIDE OF GFS

In general, GFS does not confer credit for courses taken elsewhere while enrolled at Garrison Forest but may take into account that work for purposes of placement and attach the transcript from the sponsoring institution. The Head of Upper School, in collaboration with the College Counselor, relevant Department Chair, and Dean of Academic Development, will determine whether such a course can be used to fulfill departmental requirements for graduation or whether it can be used to fulfill overall course load requirements.

Permission from the Head of Upper School and the relevant Department Chair is needed in order for a student to receive credit for a course or program other than those offered during the regular school day and year (such as for an approved semester away program). Credit is granted only on an individual basis, and requests for such credit must be made in advance of enrollment in such a course.