



Columbus School for Girls

Upper School Curriculum Guide
2021-2022



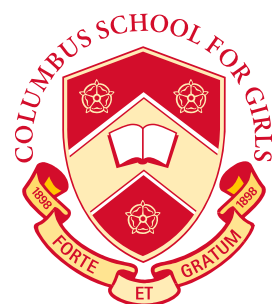


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Upper School Curriculum Overview

Columbus School for Girls offers a varied selection of required and elective courses with increasing flexibility and options as students progress through their four years of Upper School. Some courses may vary from year to year as the curriculum changes in response to student interest and/or world events. All classes and seminars are designed around highly challenging academic standards.

Each Upper School student collaborates with her college counselor, academic advisor, and faculty members to customize her course schedule, based on her college and career interests.

Graduation Requirements: 21 credits for Classes of 2021, 2022
24 credits for the Class of 2023 and beyond

English	4 Credits	At least 1 credit per year
Mathematics	4 Credits	At least 1 credit per year Required: Honors Algebra II -or- Introduction to Precalculus
History	3 Credits	Required: World History and US History Civics or AP US Government
Science	3 Credits	Required: Biology, Chemistry, and Physics
World Languages	3 Credits	Three years in the same language, including the third level of that language
Fine Arts	1.5 Credits	
Health and Physical Education*	Varies by Track	Requirements vary by track or option Required by all- Health & Wellness (IX) and Health II (XI)
Computer Science	0.5 credit	Required: Intro to Computer Science 1a
Public Speaking		Required: .35 credits
Electives		As required to meet total credits for graduation
Non-Credit Courses		College Preparation XI and Junior & Senior May Program
Service	60 Units	Minimum of 10 hours per year with a total of 60 hours required

Students are required to take a minimum of five full-credit, graded courses each semester

Courses are designated either graded or pass/fail:

Graded courses receive the standard grade equivalents of A, B, C, D, and F.

Pass/Fail courses are graded on a pass or fail basis and do not count toward the fulfillment of departmental graduation requirements except in the areas of Health and Physical Education.

Advanced Placement Courses
Columbus School for Girls offers many courses in the national Advanced Placement Program. AP classes are intensive and accelerated and require more preparation than other courses. These courses can offer several advantages: students will study the subject with a breadth and depth not found in other courses, and some universities offer credit for a score of three or better on the AP Examination.

Admission into an AP course is dependent upon meeting certain prerequisites which are explained in the course descriptions. Each student enrolling in an AP course must obtain departmental permission in order to do so.

Approval for AP courses at the time of scheduling is provisional and depends on continued success in the prerequisite courses. All AP scheduling will be reviewed at the end of Semester 2 to ensure that student grades and performance are consistent with AP standards. Students enrolled in AP courses are evaluated during the first few weeks of Semester 1 of the course to be sure that AP placement is appropriate.

A student who does not meet the stated prerequisites for

an AP offering may request consideration with a petition. Petition forms can be obtained from the department chairperson for that course and will define the academic expectations that will earn enrollment. Petitions must be signed by the student, a parent, the designated teacher, and the department chair. The form should then be attached to the student's schedule request form. When students petition for course entry, the ultimate recommendation of the teacher, the department chair, and the Upper School Director will be final.

Taking the College Board AP examination for each course at the end of the year is required. Families will register and pay for AP exams in the fall, via an online registration. In the 2019-2020 school year, the cost (set by College Board) approximately \$100 for each exam. Exam fee reductions are available for students who qualify for financial aid.

Course Offerings
Courses are offered based upon projected enrollment. In the event that actual enrollment for a specific course is insufficient to support it, CSG reserves the right to cancel the course for the academic year. Any student affected by this will be offered an opportunity to select another course to complete her schedule.

Cum Laude
In order to be eligible for Cum Laude, students must be enrolled in at least five full-credit, graded courses during each semester of their upper school years. Courses taken at local colleges and universities receive credit; however, the Cum Laude average is based only upon averages in

courses taught by a CSG faculty member. Grades in Advanced Placement or post-Advanced Placement courses are weighted for Cum Laude consideration.

Independent Studies
An independent study project offers students the opportunity to pursue an academic interest in consultation with a faculty advisor. Independent studies can be arranged in most areas of the curriculum and may be either a single semester or a full-year commitment. Recent independent study topics have been in areas of internet security, technology, history, French, German, Greek, writing, visual arts, and genetics. See pg. 27 for details.

Schedule Changes
Students' course requests determine the number of faculty hired, course materials ordered, teaching assignments and the number of course sections offered. Because scheduling requests are integral to academic planning structure for the upcoming school year, students must be committed to their requests before submitting them. **Once the school year ends, no scheduling changes will be accepted until the start of the new school year and then will require written approval from a student's faculty advisor and Division Director.**

Additional Academic Options
CSG Summer Programs
Students may fulfill some graduation requirements by enrolling in courses offered during the summer as part of CSG's Summer Programs. Details about summer course offerings and guidelines will be available online in February 2021.

Occasionally, students may earn

credit for courses during the summer only if they are taken at CSG or through a CSG-approved provider. Such cases must be approved by the Department Chair and Division Director.

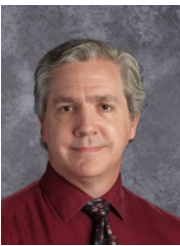
One Schoolhouse Courses
Columbus School for Girls is an affiliate member of One Schoolhouse (OS) which is a fully accredited online school that serves independent school students in the U.S. around the world. Online courses require an exceptional degree of self-motivation and time management. With approval from the Department Chair and Division Director, CSG students may take OS courses not offered at CSG for elective credit beginning in Form X. While the credit and grade for an OS course will be shown on the student's transcript, the grade will not be included in the GPA calculation for the student.

Tuition for OS courses is separate from CSG tuition. Students who are interested in a course from OS must fill out a registration form with CSG prior to June 2021. CSG will handle the course registration through OS. Please check the website www.oneschoolhouse.org for specific course descriptions and availability, and fill out the Course Intent Form by May 1, 2021.

Questions Concerning Curriculum and Scheduling:

Please direct curriculum questions to:
Dr. Kellen Graham, Director of Upper School
kgraham@columbusschoolforgirls.org
614.252.0781, ext. 115

Please direct scheduling questions to:
Mr. John Hartshorne, US Scheduler
jhartshorne@columbusschoolforgirls.org
614.252.0781, ext. 298



College Counseling



College Preparation

- No credit, non-graded
- Required of all students in Form XI
 - Prerequisites: None
 - Semester 2 only; no credit

This course prepares students for the college search experience and application process. Topics of discussion include: college visits, interviewing, essay writing, the application process, the Common Application, and more.

Computer Science



The primary goal of CSG's computer science department is to introduce students to current and emerging technologies and to help them develop the fluency necessary to be users of an ever-changing list of devices, programs, and literacies. Courses are project-based and focus on problem solving and understanding hardware, software, and major topics in computer science.

INTRODUCTION TO COMPUTER SCIENCE 1a

- Full-credit, graded course
- Required of all students in Form IX
 - Prerequisites: None
 - Semester course (offered each semester), 0.5 credit

This course is an introduction to computer science principles, technology, and coding and is based on the principle that learning about programming and computer science should be fun and engaging. This required course teaches skills in coding, problem solving, collaboration and iteration. Students work

collaboratively, and grades are based largely on perseverance and the completion of creative projects using code.

INTRODUCTION TO COMPUTER SCIENCE 1b

- Full-credit, graded course
- Elective
 - Prerequisites: Introduction to Computer Science 1a
 - Semester course (offered each semester), 0.5 credit

Introduction to Computer Science 1b is a continuation of Introduction of Computer Science 1a. This course will build on the foundational concepts learned in Computer Science 1a. In this project-based course, students will design solutions to problems, applying both the control structures they learned in Computer Science 1a and more advanced knowledge of data structures and algorithms. This course will explore new computer science topics like the Internet of Things (IoT) and machine learning.

AP COMPUTER SCIENCE PRINCIPLES

- Full-credit, graded course
- Open to students in Forms X, XI, and XII
 - Prerequisites: Algebra I
 - Full-year course, 1 credit

AP Computer Science Principles is a relatively new AP course from the College Board that was offered for the first time in 2016-17. The course offers a multidisciplinary approach to the underlying principles of computation. It will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. The AP test consists of two projects to be completed during the school year and a 90-minute multiple choice conceptual test in May.

AP COMPUTER SCIENCE A

Full-credit, graded course

- Open to students in Forms X, XI, and XII
- Prerequisites: Algebra I
- Full-year course, 1 credit

AP Computer Science A teaches object-oriented programming methodology with an emphasis on problem solving and algorithm development. It also includes the study of data structures and abstraction. AP Computer Science A is taught in Java and is equivalent to a college-level Introduction to Computer Science course. This course is very academic, providing students with a rigorous introduction to programming that will give them a solid foundation should they choose to pursue computer science in college.

TOPICS IN COMPUTER SCIENCE: WEB DESIGN

Full-credit, graded course

- Open to students in Forms X, XI, and XII
- Prerequisites: One year of computer science (Introduction to Computer Science A and Introduction to Computer Science B or AP Computer Science Principles or AP Computer Science A)
- Full-year course, 1 credit

This year-long, project-based course will allow students to apply the basics of programming they’ve learned previously in a new, more focused context. The specific topic will change from year to year. Students will spend the first semester learning a new programming language and exploring the topic of focus. In the second semester, students will use the things they’ve learned to design and implement their own projects that they can use to build a portfolio of work. Throughout the year, students will get a deeper understanding of how things are built with code, and they will get a survey of the types of

jobs and careers that are available within this topic.

COMPUTING FOR HUMANITY

Full-credit, pass/fail course

- Open to students in Forms X, XI, and XII
- Prerequisites: Introduction to Computer Science 1a Semester course (offered Semester 2), 0.5 credit

This semester-long course will combine service, education, and technology. Students will work together to plan and run three technology-focused service events- two events for our local community and one for an underserved community in another state. To plan their events, students will learn about education through observing and analyzing techniques used by various teachers in our school, playing and analyzing educational games and activities, and leading classes and workshops for peers and younger students. For the local service events, students will work in teams to decide on a topic, prepare the technology they will need to host the event, and plan, organize, and advertise the events. Students will learn about open source software, programming, and the Linux operating system to make decisions about what technology they want to use in their events. The class will culminate in an optional service trip to another state where students will lead a coding workshop for children and donate the laptops they have prepared.

English



The English department’s goals are to foster students’ love of language and literature and to develop their ability to think and communicate effectively. The program emphasizes critical communication skills: reading, listening, speaking, and writing. Students continually hone their ability to read with comprehension, discrimination, sensitivity, and pleasure; to express their ideas with clarity, coherence, and fluency, and to understand the structure, complexity, and power of the English language. These skills are continually taught and reinforced at all grade levels, with the degree of development becoming more complex with each consecutive course.

Upper School students take courses that follow a preset trajectory: Form IX Personal Odysseys, Form X Survey of American Literature, and Form XI Survey of British Literature (or, if they meet the stated requirements, Form XI AP Literature and Composition, which features the same readings as the British Literature course, but also prepares students for the AP examination). Form XII students choose two semester-long courses. New senior electives are periodically developed and offered by the English faculty according to their areas of expertise, the interests of students, and the evolving discipline of English. Each senior elective allows students to explore specific topics within one or more broad curricular threads:

author/literary periods, genre studies, and multicultural and inclusive literature.

ENGLISH IX: PERSONAL ODYSSEYS

Full-credit, graded course

- Required of all students in Form IX
- Prerequisites: None
- Full year, 1 credit

The title of the course alludes to Homer’s Odyssey, a story that is nearly 3,000 years old. Throughout his epic journey, Odysseus is forced to encounter the unfamiliar, navigate (sometimes pleasurably) treacherous terrain, and examine his values and leadership. We will use the metaphor of an odyssey to bring together four key strands in this course: (1) an

emphasis on literary “windows” and “mirrors,” so students can engage in open and respectful discussions about diversity, equity, and inclusion; (2) a focus on leadership, as presented in traditionally canonical, as well as recently published texts, so students can see different models of female voice, courage, resilience, and success; and (4) a broad range of writing activities and assignments, so students can practice the modes of writing emphasized in college composition courses.

SURVEY OF AMERICAN LITERATURE

Full-credit, graded course

- Required of all students in Form X
- Prerequisites: Successful completion of English IX Personal Odysseys
- Full year, 1 credit

In this course, students will focus on American literature, with an interdisciplinary approach that complements the United States history course. Students will read literature from early America to the present, including poetry, autobiography, essays, short stories, novels, and plays. Students are taught to read carefully, to think critically, and to demonstrate their reading and thinking skills in a variety of writing assignments, with particular emphasis on essays of literary analysis. The course also stresses grammar and vocabulary development.

SURVEY OF BRITISH LITERATURE

Full-credit, graded course

- Required of all students in Form XI, unless enrolled in Advanced Placement English Literature and Composition
- Prerequisites: Successful

completion of Form X Survey of American Literature

- Full year, 1 credit

In this course, students will read major works of British literature from Beowulf to Virginia Woolf, along with more contemporary texts of their own choosing. The course is designed to develop and refine students' skills in reading literature, thinking critically, writing analytically and imaginatively, and working with and documenting secondary sources, such as scholarly literary criticism. In addition to shorter analytical and creative writing assignments, students will write two research papers; in the process, they will find and effectively use historical and literary resources and document these sources according to MLA guidelines. They will also continue to develop their skills in vocabulary, grammar, punctuation, analytical and creative writing, listening and speaking, and research writing and documentation.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

Full-credit, graded course

- Open to Form XI
- Prerequisites: Successful completion of Form X Survey of American Literature with a grade of B+ or higher on writing assignments, the recommendation of the English X teacher, and full participation in class discussions and projects. A writing sample may be required; a departmental signature is required.
- Full year, 1 credit

In this course, students will develop the reading, writing, and analytical skills necessary for success on the Advanced

Placement English Literature and Composition examination. AP students will not only read the works featured in the Survey of British Literature course, but they will also complete additional readings and tackle writing assignments that push them to produce high-level, rigorous work. Students will continue to develop their skills in vocabulary, grammar, punctuation, analytical and creative writing, listening and speaking, and research writing and documentation.

CREATIVE WRITING

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 1 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based upon date of request.

This course is for students who want to take the leap from reading, interpreting, and analyzing poetry, fiction, and nonfiction to crafting it. Readings will include stories and contemporary poetry by a diverse range of writers. By studying select works, tackling creative-writing exercises, participating thoughtfully in peer workshops, and revising carefully, students will produce, by semester's end, portfolios of their best original work.

MODERN POETRY

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 1 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based upon date of request.

Emily Dickinson, one of the most famous and prolific American

poets, wrote: “I reckon--when I count at all-- / First--Poets--Then the Sun--.” Dickinson makes an argument for the importance of poets, due to their unique ways of seeing the world. In this course, we will broaden our exposure to poetry from the beginning of the twentieth century to the present. Through reading poems by diverse authors, we will explore some of the most common topics in poetry: nature, love, identity, society, and relationships. In addition to examining the printed word, we will also watch slam poems to reflect on the ways poetry changes when its medium of expression shifts. Assignments will include several analytical papers and a final project that will ask students to apply the concepts we have studied to a poet of their choice.

SHAKESPEARE AND CONTEMPORARY INTERPRETATION: ALL THE WORLD'S A STAGE

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 1 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based on date of request.

This course will focus on a close reading of various Shakespeare tragedies, comedies, histories, and romances, and their film and/or stage adaptations. Through reading, writing, and discussion, students will consider the major themes presented in the plays and the way those themes translate to film and other media. Students will develop a familiarity with Shakespeare's language and historical context, as well as with the language of film criticism. In addition to reading and discussing the assigned texts,

students will also continue to develop their skills in vocabulary, grammar, punctuation, analytical and creative writing, listening and speaking, and research writing and documentation.

INTRODUCTION TO WOMEN'S STUDIES

Full-credit, graded course

- Open to Form XI and XII
- Prerequisites: None
- Semester 1 only, 0.5 credit
- Course will require a minimum of 8 students to run, based on date of request.

This interdisciplinary course will introduce students to key concepts, issues, and debates in women's studies. Through readings, class discussion, analytical and persuasive writing assignments, and research and service projects, students will learn how culture and society shape gender and how gender intersects in complicated ways with issues of race, ethnicity, class, and nationality. The course will also focus on women's leadership and will emphasize hands-on, project-based learning. Texts will include autobiography, biography, nonfiction, fiction, and film and will draw from the fields of history, science, politics, economics, and the arts. Students will write position papers and textual analyses; they will also present their research on a variety of historical and current, national and international women's issues. “Introduction to Women's Studies” is cross-listed as a senior English elective and as a history junior / senior seminar. Students may take the course for either English or history credit, but those taking the course for history credit as seniors need to make sure they have fulfilled the graduation requirement of four years of English. Students may not take the course twice.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of Survey of British Literature or AP English Literature and Composition, with a grade of B+ or higher on writing assignments, the recommendation of the English XI teacher, and full participation in class discussions and projects. A writing sample may be required; a departmental signature is required.
- Semester 2 only, 0.5 credit

This course will introduce students to the principles and practice of rhetoric and composition. Students will gain further exposure to the genre of literary nonfiction and will refine their skills as close and careful readers, better able to analyze the rhetorical and stylistic choices made by a diverse range of writers. The course will prepare students for the Advanced Placement Language and Composition examination, as well as college-level classes in rhetoric and composition.

AFRICAN-AMERICAN LITERATURE

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 2 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based on date of request.

This course will broaden our exposure to African-American literature from the pre-Civil War period to the present, and it will help us gain a deeper understanding of how these texts and writers fit into the American

narrative. Assignments will include several short analytical essays and a final project.

CONTEMPORARY FICTION: PRIZE-WINNING NOVELS

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 2 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based on date of request.

What makes a book great? What kinds of literature do we currently value? In “Contemporary Fiction,” we will examine these questions by reading fictional books published during our current decade. Each book has won significant literary awards, including the Pulitzer, Man Booker, National Book Award, and National Book Critics Circle Award. In this discussion-based course, we will not only read and discuss the novels individually, but we will also think about what they tell us about our current concerns and cultural values. Assignments will include several short analytical essays and a final project that will ask students to draw connections among multiple texts.

LITERARY AND CULTURAL DISABILITY STUDIES

Full-credit, graded course

- Open to Form XII
- Prerequisites: None
- Semester 2 only, 0.5 credit
- Course will require a minimum of 8 students to run and will also be capped at 16 students, based upon date of request.

This course introduces students to the ever-growing field of Disability Studies, through which we will investigate the ways that disability is composed in

contemporary life, particularly in literature and film. Students will examine how disability intersects with gender, race, class, age, and sexuality to shape ideas about selves and others. Students will explore various models of disability, theorize concepts such as normal, passing, inspiration, and access, and consider how individual artists and authors construct and contest those concepts in their work. Through reading responses and analytical papers, research projects, and presentations, students will examine their own engagement with disability and its representations now and in the future.

Fine Arts



Studies in the arts have been developed to instill a knowledge and appreciation of the creative process through both performance and academic study. Students should emerge from these studies with first-hand experience in self-expression and communication through artistic disciplines and with an aesthetic appreciation for the similar expressions of others.

Performing arts courses enable students to explore dramatic and musical literature in situations that encourage collaborative work. Skills are developed in ensemble and rehearsal technique. Students learn how to use problem-solving strategies, take direction, and acquire the discipline necessary for high quality performances. Creativity and risk-taking are encouraged as students develop confidence in their abilities. Students have the

opportunity to build and refine technique, develop analytical and critical skills, and increase their repertoire of expressive tools. Performance classes allow students to grow in their involvement and appreciation for the process of the art as well as for the final performance.

The visual arts have a multifaceted goal of building confidence in artistic competence through practical experience and academic critique, nurturing individual expression through multi-cultural and interdisciplinary studies, and encouraging aesthetic literacy through the study of historic and modern modes. Process and product are important. Through a spiral approach, artistic growth in manipulative skills and visual perception is cultivated from early childhood to young adulthood and beyond.

Note: Scheduling priority in the Fine Arts courses is given to students in Form XII. All other forms have equal priority after seniors.

MUSIC CONCERT CHOIR

Partial-credit, graded course

- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit.
- Prerequisites: None
- Full year; 0.5 credit
- Costs: Students are responsible for covering the cost of trips and honor and all-state choir tuition and expenses; limited need-based funding is sometimes available.

Concert Choir is an intermediate vocal performance group. Students will sing a variety of styles and genres from different time periods. Emphasis will be placed on developing sight-

reading, ear training, and musicianship skills, as well as exploration and development of vocal production techniques and skills necessary for achieving excellence in performance. Major concerts per year include: the CSG Thanksgiving Program, Fall, Winter, and Spring Concerts, and District/State contest (dependent on eligibility). In order to participate in the OMEA Solo and Ensemble and large group contests, enrollment in this course is mandatory.

VOCAL ENSEMBLE: THE GRACE NOTES

- Partial-credit, graded course*
- Open to Forms X, XI, and XII; this course may be taken more than once, each time for credit.
 - Prerequisites: Must audition; departmental signature required; concurrent enrollment in Concert Choir.
 - Full year, 0.5 credit
 - Costs: Students purchase their own outfit accessories and are also responsible for covering the cost of trips and honor and all-state choir tuition and expenses; limited need-based funding is sometimes available.

The Grace Notes offers qualifying students an opportunity to learn and perform an advanced level of vocal repertoire from many styles and periods. Students will focus on the skills and musicianship required for consistent excellence in performance, as well as further development of advanced vocal techniques. The performance commitment is essential and students will be expected to represent CSG in many different settings, including competition. Interested students may participate in other events as well, including OMEA events such as Solo and Ensemble and All-State Choir.

STRING ENSEMBLE

- Partial-credit, graded course*
- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit.
 - Prerequisites: Intermediate or advanced experience on a string instrument.
 - Full year, 0.5 credit
 - Costs: Students who do not own their own instruments may rent them through private music companies or may use a school instrument, at no cost, when available. Students are responsible for covering the cost of trips and honor and all state band tuition and expenses; limited need-based funding is sometimes available.

String Ensemble offers an opportunity for string students to continue improving their technical and musical skills in a performance based setting. Technical areas to be covered include: advanced key signatures, complex rhythm reading, upper position playing, vocabulary, and tone development. In addition, musical skills such as phrasing, balance, intonation, and blend will be developed.

Materials will include scales and selected etudes, as well as string orchestra literature appropriate for the playing level of the ensemble. Music of the major stylistic periods will be included in the repertoire of the ensemble. Several in-school and evening concerts will be scheduled throughout the year. Attendance is required at all String Ensemble events. In order to participate in the OMEA events such as the South-Central Region Orchestra and Solo and Ensemble Contests, enrollment in this course is mandatory.

SELECT STRING ENSEMBLE

- Partial-credit, graded course*
- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit
 - Prerequisites: Advanced experience on a string instrument; departmental signature required; concurrent enrollment in String Ensemble.
 - Must audition; rising IX and new Upper School students may audition in the spring for the following fall, or they may audition at the beginning of the fall semester and add it to their schedules during the add/drop period.
 - Full year, 0.5 credit
 - Costs: Students who do not own their own instruments may rent them through private music companies or may use a school instrument, at no cost, when available. Students are responsible for covering the cost of trips and adjudicated events; limited need-based funding is sometimes available.

The Upper School Select String Ensemble will offer dedicated, advanced, and advancing string students an opportunity for increased musical challenges within a smaller chamber music setting. Students will have the opportunity to sharpen their musical, technical, and collaborative rehearsal skills by rehearsing and performing chamber music. Students in the Select String Ensemble will represent CSG by performing within the school and larger community serving as music ambassadors for Columbus School for Girls.

CONCERT BAND

- Partial-credit, graded course*
- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit.
 - Prerequisites: Intermediate

- or advanced ability on a brass, woodwind, or percussion instrument.
- Full year, 0.5 credit
- Costs: Students who do not own their own instruments may rent them through private music companies or may use a school instrument, at no cost, when available; students are responsible for covering the cost of trips and honor and all state band tuition and expenses; limited need-based funding is sometimes available.

Concert Band offers an opportunity for intermediate and advanced level woodwind, brass, and percussion students to continue improving their technical and musical skills. Technical and musical areas to be covered include scales, rhythm reading, intonation, articulation, dynamics, music notation, vocabulary, and technical and tone development. Repertoire will be selected according to the appropriate ability level of the players.

Several in-school and evening performance opportunities will be scheduled throughout the year. Attendance is required at all Concert Band events. In order to participate in the OMEA Solo and Ensemble Contests, enrollment in this course is mandatory.

SELECT WIND ENSEMBLE

- Partial-credit, graded course*
- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit
 - Prerequisites: Advanced experience on a band instrument; departmental signature required; concurrent enrollment in Wind Ensemble
 - Must audition; rising IX and new Upper School students may audition in the spring for

- the following fall, or they may audition at the beginning of the fall semester and add it to their schedules during the add/drop period.
- Full year, 0.5 credit
- Costs: Students who do not own their own instruments may rent them through private music companies or may use a school instrument, at no cost, when available. Students are responsible for covering the cost of trips and adjudicated events; limited need-based funding is sometimes available.

This course is designed for students who desire a smaller ensemble experience with advanced, varying repertoire. Students will focus on aspects of their performance and how it relates to creating a well-blended, well-balanced ensemble sound. The ensemble will perform at OMEA Solo and Ensemble and may be available to perform at school and community functions as the opportunities arise.

AP MUSIC THEORY

- Full-credit, graded course*
- Open to Forms XI and XII
 - Prerequisite: Music Essentials with a passing grade,
 - Advanced ability on instrument (instrumental or vocal); departmental signature required.
 - Full year, 1 credit
 - Offered in 2021-2022 (offered in even-numbered graduation years.)

AP Music Theory is a course designed to develop musical skills that will lead to a thorough understanding of music composition and music theory. Students will receive instruction in the following content areas: advanced application of key signatures, scales, modes,

chord structure and function, melodic and harmonic ear-training, meter, chordal analysis, secondary-dominant functions, dictation, circle of 5ths, two-part counterpoint, common compositional forms, and listening repertoire. Students will be prepared to take the AP Music Theory Exam when they have completed the course.

NOT OFFERED THIS YEAR:

MUSIC ESSENTIALS

- Full-credit, graded course*
- Open to Forms X, XI, XII
 - Prerequisite: Enrolled in a CSG performance ensemble
 - Passing grade required to take AP Music Theory
 - One semester, 0.5 credit
 - Offered in odd-numbered graduation years starting 2020 2021

The Music Essentials course is intended to develop a solid foundation of music theory and musicianship skills in our Upper School musicians. Students will review each essential music element and demonstrate understanding through performance as well as written assessments at the basic and intermediate levels. After students demonstrate mastery of foundational music skills and concepts, a spiral curriculum of applications, experiences, and demonstration of multiple concepts will be assessed. Topics will include note names, rhythm, time and key signatures, basic aural and sight-singing training, basic terminology, composers, and multiple genre videos of great performances. Students wishing to take AP Music Theory the following year must pass this course first.

THEATER AND PUBLIC SPEAKING

Partial-credit, graded

- Required of all students in ‘ Form X
- Prerequisites: None
- Semester course (offered each semester), 0.35 credit
- Summer Option: This course will be offered during CSG's Summer Programs.

Students are introduced to the basic techniques and principles of vocal study and oral speech. Classroom exercises involve presentation of speeches both assigned and created by the student for the purpose of working out individual presentational challenges. The intent of the course is to instruct the student in the basic techniques of voice production, relaxation, and effective presentation. The course will introduce and develop breathing and relaxation technique, proper support, correct sound production and projection, standard diction and articulation, and personal decorum.

ACTING I

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: None
- Semester course (offered each semester based upon course enrollment), 0.5 credit

Students will explore basic techniques and principles of character interpretation and performance. Classroom projects are presented for the purpose of working out particular dramatic problems. Instructional methods will include exercises, rehearsals, scene work, improvisation and individual coaching to promote physical and vocal awareness as well as self-confidence and creative problem-solving.

ACTING II

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Acting I
- Semester course (offered each semester based upon course enrollment), 0.5 credit

Designed for students who are seriously interested in acting, this course provides the opportunity for in-depth one-on-one work on monologues, one woman shows, Shakespeare, and scene work. Since much of the work is self-directed, students must be eager, independent workers. Students will participate in some Acting I exercises/games as refreshers. This course would be particularly beneficial during the junior or senior years.

VISUAL ART

CERAMICS

Full-credit, graded course

- Open to Forms IX, X, XI, and XII; class size is limited to 12 students.
- Prerequisites: None
- Semester course (offered each semester), 0.5 credit
- Offered in 2021-22; offered each Semester of even numbered graduation years.

This course explores clay through traditional wheel throwing and handbuilding. The beginning of the semester focuses on throwing on the wheel, glazing, and firing techniques; the latter part of the semester focuses on hand building.

ADVANCED CERAMICS

Full-credit, graded course

- Open to Forms IX, X, XI, and XII, class size is limited to 12 students.
- Prerequisites: Ceramics
- Semester course (offered each semester), 0.5 credit

- Offered in 2021-22; offered each Semester of even numbered graduation years.

This course is a continuation of the techniques covered in Ceramics. Development of hand building and wheel throwing skills are further enhanced in this course. Students learn how to create more complex forms and expand their learning to explore more conceptual ways to develop their skills and craft. Regular critiques at this level will be an integral part of the course.

SCULPTURE

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: None
- Semester course (offered each semester), 0.5 credit
- Offered in 2021-22; offered each Semester of even numbered graduation years.

The study and application of design principles and a variety of materials to create three-dimensional works form the foundation of this course. Students explore reductive and additive sculpting methods through the use of media such as clay, cardboard, fibers, found objects, as well as non-traditional materials. Students will learn how to critique 3-Dimensional works with a critical eye and understanding of art terminology.

ADVANCED SCULPTURE

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Sculpture
- Semester course (offered each semester), 0.5 credit
- Offered in 2021-22; offered each Semester of even numbered graduation years.

This course is a continuation of the principles covered in

Sculpture. Advanced sculpture students will work to further develop their skills within the medium they choose (clay, wire, found objects, etc.), and will be challenged to create more complex and conceptual works of art. Regular critiques at this level will be an integral part of the course.

PHOTOGRAPHY I

Full-credit, graded course

- Open to Forms IX, X, XI, and XII; class size is limited; scheduling priority is given to Form XI and XII students.
- Prerequisites: None
- Semester course; offered each semester every year, 0.5 credit

This course is an introduction to black and white film photography. Fundamentals of manual camera operation, film developing, and printing in the darkroom are taught. Assignments specific to basic design principles and fundamentals in art help the student develop her own style and way of seeing; critiques and class discussions aid the student in grasping the unique qualities of this medium. Students will be evaluated by a final edited portfolio of developed and printed work.

PHOTOGRAPHY II

Full-credit, graded course

- Open to Forms IX, X, XI and XII; class size is limited; scheduling priority is given to Form XI and XII students.
- Prerequisites: Photography I
- Semester 2 course; offered every year, 0.5 credit

Photography II builds upon the traditional skills and techniques learned in Photography I from the darkroom experience and catapults the students onto the digital platform. Students

will use DSLR cameras as well as smartphone cameras for their photo shoots. Students do a significant amount of work primarily in Photoshop. This is an advanced, fast paced course where each project builds upon the previous one in complexity and intensity. Students will be evaluated by a final edited portfolio of printed work.

ADVANCED PLACEMENT ART AND DESIGN: DRAWING, 2-D DESIGN, OR 3-D DESIGN

Full-credit, graded course

- Offered each year
- Open to Forms XI and XII; this course may be taken more than once, each time for credit.
- Prerequisites: A combination of CSG art coursework (may include 3 of the following: Drawing, Advanced Drawing, Painting Advanced Painting, Photography I, Photography II, Ceramics, Advanced Ceramics, Sculpture or Advanced Sculpture) or have advanced experience equivalent to combinations of the above; a portfolio of artwork made during a student's HS career (IX, X and above) is a prerequisite for this course; departmental signature required.
- Full year, 1 credit
- No April practice examination is required in this course; a portfolio must be submitted to the College Board in May.
- Students participating in the May program will have to submit their portfolios in April prior to the College Board deadline date.

This course is for the highly self-motivated art student and demands significant time and production commitment. It is designed to provide the same benefits to secondary school

students as those provided by an introductory college course. Students will pursue special creative problems in depth and will prepare one portfolio consisting of concentration work; the portfolio will be submitted and will go through a rigorous national committee review by the AP College Board. Students work closely with the art teacher to select the top quality work and may submit work in one of the following areas: Drawing, 2-D Design, or 3-D Design.

NOT OFFERED THIS YEAR

DRAWING

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: None
- Semester course (offered each semester), 0.5 credit
- Not offered in 2021-22; offered each Semester of odd numbered graduation years.

The beginning of the term focuses on basic drawing methods (measured drawings, additive and subtractive processes, etc.) and introduces the student to a variety of traditional drawing materials (graphite, charcoal, conte, etc.); the latter portion of the term will focus on non-traditional methods and materials and will explore more contemporary methods of drawing. Students learn to draw from life as well as from source material for reference and will have the opportunity to experiment with historical, contemporary and personal themes in art. Sketchbook assignments complement in-class projects and allow students to develop and research a diverse range of subject matter.

ADVANCED DRAWING

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Drawing
- Semester course (offered each semester), 0.5 credit
- Not offered in 2021-22; offered each Semester of odd numbered graduation years.

This course is a continuation of the Drawing class. Students move from observational drawing to more challenging and conceptually based subject matter and content with each project. Traditional drawing materials are reinforced in tandem with the introduction of non-traditional materials. Students learn to effectively use the medium to create the desired end result. Regular critiques at this level will be an integral part of the course.

PAINTING

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: None
- Semester course (offered each semester), 0.5 credit
- Not offered in 2021-22; offered each Semester of odd numbered graduation years.

This course is intended to build and develop an understanding of color theory, drawing, and compositional skills through the use of traditional painting mediums. Controlled use of color palettes and introduction to various painting techniques will be filtered into this course.

ADVANCED PAINTING

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Painting
- Semester course (offered each semester), 0.5 credit
- Not offered in 2021-22; offered each Semester of odd

numbered graduation years.

This course is a continuation of the principles covered in Painting. More concentration and focus is directed at fewer, longer projects. Students learn the importance of slowing down and mastering specific painting techniques. Regular critiques at this level will be an integral part of the course.

DESIGN: THE INTERSECTION OF ART AND ENGINEERING

- Full-credit, graded course, co-listed science and art departments
- Open to students in Forms IX, X, XI, and XII
- Prerequisites: None
- Semester 1 course
- Not offered in 2021-22; offered Semester 1 of odd-numbered graduation years

This course will introduce students to the world of design as seen through the eyes of engineering and applied arts, building on students' abilities in math and science while applying fundamental principles taken from the fields of engineering and art. The design process, (i.e. the process of applying creative skills in the development of a solution to a defined problem), will be presented via project-based instruction. The approach will reflect the present interdisciplinary one used by many leading design companies. Various methodologies used in the execution of this process will be introduced, practiced and applied to actual problems. The course will have an emphasis on hands-on learning, allowing students to develop critical thinking and problem-solving skills. The students will learn to collaborate, innovate, and communicate. Special emphasis will be put on how to express

ideas to others through both two-dimensional representations (sketches, drawings) and three-dimensional models. Students will create individual portfolios to document the process, from ideation phase to prototyping to final product. The application of the design process to the worlds of industrial design, product design, and the visual and fine arts will emphasize the interdisciplinary nature of design. Additional activities in this course will include discussions, guest speakers, class exercises, case studies, off-site field trips, and student presentations.

Health & Physical Education



HEALTH

The Health curriculum provides each student with the skills and knowledge to make informed healthy choices about personal wellness and lifestyle.

HEALTH AND WELLNESS

Full credit, graded course

- Co-listed under Physical Education and Health
- Required of all students in Form IX
- Prerequisites: None
- Offered both semesters, 0.35 Health credits and 0.15 PE credits

An introduction to personal wellness, this course emphasizes responsible decision-making, a

life free of drugs, alcohol, and tobacco abuse, cancer research, mental health, issues relating to human sexuality, and certification in First Aid and CPR through the American Red Cross. This course will also focus on nutrition and individual fitness. This course will increase a student's awareness of cardiovascular fitness and movement through a variety of activities including, but not limited to yoga, strength training, and circuit training. Health and Wellness is a graded course that meets three times each six-day rotation.

HEALTH II

Full credit, graded course

- Required of all students in Form XI

- Prerequisites: Successful completion of Health and Wellness
- Offered both semesters, 0.35 Health credits and 0.15 PE credits (self-defense portion)
- Summer Options: This course will be offered during CSG's Summer Programs.

Health II discusses topics of concern specific to high school and college-bound women. The objective is to equip students with the knowledge and skills necessary to make intelligent decisions on matters pertaining to personal and community health. This course offers multiple speakers on different health-related topics, human sexuality, and comprehension

of the law related to drugs and alcohol. Recertification through the American Red Cross, stress management and depression, breast cancer, growth and development, body image and eating disorders, and nutrition are also covered throughout the course. The self-defense portion of the course follows the R.A.D. Systems program of self-defense. It will help students develop safety techniques using their voices as well as physical capabilities in real-world situations. Health II is a graded course that meets three times each six-day rotation.

PHYSICAL EDUCATION

The Upper School Physical Education curriculum emphasizes understanding the importance of leading physically active lifestyles and creating opportunities for students to take ownership of their personal fitness and physical activity. The overall goal of the program is to develop young women who have the knowledge, skills, and confidence to enjoy a lifetime of healthful physical activities.

In order to meet the 120 hour/0.5 unit required for graduation by The Ohio Department of Education, students must complete one of three options:

- Academic Option: 3 semesters of physical education courses during Upper School
- Interscholastic Athlete option (see page 20)
- Offsite Individual Physical Education option (see page 21)

All Form IX students are required to take Health and Wellness

All Form XI students are required to take Health II, which includes the physical component of Self-Defense.

CARDIO, FLEXIBILITY, & STRENGTH: WELLNESS REVOLUTION

Partial credit, pass/fail course

- Required of all IX and/or X students in the Academic Physical Education Program, one semester each year OR one semester plus one semester of Water Safety- this course may be taken more than once, each time for credit
- Semester 1 only, 0.35 credits

The course provides a number of options for students to improve their flexibility, strength, and cardiovascular fitness. Possible class activities include yoga, circuit training, Zumba, HIIT, and weight lifting. Students not enrolled in the course may participate on a drop-in basis if their schedule and class space permit. The objective of this course is to promote lifelong physical fitness and wellness. Wellness Revolution is a pass/fail course that meets two times each six day rotation.

WATER SAFETY

Partial-credit, graded, elective course

- Open to all students
- Prerequisites: None
- Semester 2 only, 0.35 PE credits
- Summer Options: This course will also be offered during CSG's Summer Programs.

This course will allow students to develop comfort in the water, improve swimming strokes, and review safety guidelines when involved in water activities, including boating safety and personal safety techniques. Water Safety is a graded course that meets two times each six-day rotation.

INTERSCHOLASTIC ATHLETE PROGRAM

No credit, non-graded (successful completion waives certain PE requirements)

- Open to Forms IX, X, XI, and XII
- Prerequisites: None
- No credit* is awarded for athletic team participation.
- One CSG US sports season each of 4 years plus Health and Wellness (IX) and Health II (XI)

This policy is intended to free time for additional academic scheduling during the school day for interscholastic sport student-athletes. Student-athletes meeting the requirements of this policy will not receive a grade or academic credit for interscholastic athletics; however, grades and academic credit will be awarded for Health & Wellness and Health II. Successful completion of the applicable Interscholastic Athlete Program option fulfills the graduation requirement regardless of the total number of credits earned.

Participation in an interscholastic sports season means the following:

2021-2022 Interscholastic Sports Seasons:

- **Fall** (Golf, Cross Country, Field Hockey, Soccer, Tennis, Volleyball): Monday August 2, 2021 - Postseason Tournament
- **Winter** (Basketball): Friday October 22, 2021 – Postseason Tournament (Swimming and Diving): Friday October 29, 2021 – Postseason Tournament
- **Spring** (Lacrosse and Track & Field): Monday February 21, 2022 –

Postseason Tournament

- Selection to any interscholastic team will require that student-athletes meet appropriate team standards in order to be a member of that team
- A student-athlete must attend all team practices, competitions, and team events, beginning with the sport's official start date set by the Ohio High School Athletic Association (even if this date is prior to the opening of school in the fall) and continuing through all post-season play. This may also include events held over school holidays.
- Each student-athlete is responsible for remaining academically eligible throughout the sports season. If at any time a student-athlete does not meet the criteria set forth above, they will be required to make up the appropriate coursework. It is the student's responsibility to contact the US Scheduler and PE/Health Department Chair to make any necessary schedule changes.

OFFSITE INDIVIDUAL PHYSICAL EDUCATION PROGRAM

Partial-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Students must meet criteria of an elite competitor (see definition below)
- 4 years of enrollment in an approved offsite program plus Health and Wellness (IX) and Health II (XI)
- Full-year, 0.15 credits

The Ohio Department of Education mandates 120 hours of physical education to earn the one-half unit of credit required for graduation. According to ODE regulations, offsite projects in PE may be substituted for PE

classes as long as the offsite project is not in a CSG varsity interscholastic sport and is not used to support an interscholastic sports program at the school.

Students who are elite competitors in sports or competition not included in the school's extracurricular interscholastic athletic program may propose an offsite project in physical education that meets the following standards:

1. The student must meet the definition of an elite competitor: a highly competitive performer who is engaged in training for competition at the college, regional or national, Olympic or professional level over a period of years.
2. The offsite project's number of hours must be, at a minimum, 8 hours of practice and/or competition per week for the equivalent of one semester, or 4 hours of practice and/or competition per week for the equivalent of a full year.
3. The student must submit a new offsite project proposal each year.
4. Certain physical education units must be completed at CSG: Health and Wellness (completed by all students who attended CSG in Form IX). CSG reserves the right to add or substitute additional units of activity at the discretion of the PE Department. For each year of participation in the Offsite Individual Physical Education Program, a student will earn .15 credits.
5. The student's coach, instructor, or trainer must sign off on the School's form documenting student hours and

activities.

6. It is the responsibility of the student to supply the PE Department with documentation of the offsite project and to participate in any online work through Canvas.

Offsite projects are intended to free time for academic work in the daily schedule for those elite competitors who spend numerous hours weekly in training. These projects are not intended for students who play a year-round club sport or who are training for a single event such as a marathon, or who might wish to substitute another activity in place of the school's physical education program.

Students planning to request approval for an offsite program will receive the appropriate paperwork in April. The PE/Health Department Chair will designate one teacher to oversee the offsite project, conduct the online portion of the course, and contact the student's coach for progress reports. Oversight of the project may include an on-site visit or a video demonstration. This teacher will be responsible for assigning the student's grade at the end of the academic year.

History



The history department offers courses in several areas of history and the allied social sciences. Our curriculum seeks to promote reflective thinking and values education. More specifically, the curriculum emphasizes the following themes and subject areas: geography and geopolitical analysis, global interrelationships, historical change and continuity, the historical contributions of women, the challenges of citizenship, and individual moral responsibility. Particular attention is given to the skills necessary to develop a critical understanding of the diversity of global cultures and the issues confronting the world at large. These skills include the application of logic in constructing written analytical

arguments, effective oral communication, an understanding of chronological relationships, note-taking and outlining skills, independent research and effective use of library research and information technology.

WORLD HISTORY

Full-credit, graded course

- Required of all Form IX students not enrolled in Honors World History.
- Prerequisites: None
- Full year, 1 credit

This course introduces Upper School students to the foundations of historical inquiry and analysis by focusing on world regional geography and world history from 1200

to the present. Extensive map exercises familiarize students with the world around them and discussions of primary sources lay the foundation for historical and geopolitical analysis of civilizations in Europe, Asia, Africa, Latin America, and the Middle East. The course is arranged chronologically with emphasis placed on analytical essays and creative exercises in logic.

HONORS WORLD HISTORY

Full-credit, graded course

- Required of all students in Form IX not enrolled in World History.
- Prerequisites: Recommendation of the Middle School faculty
- Full year, 1 credit

This course introduces Upper School students to a greater depth of historical inquiry and analysis while focusing on world regional geography and world history from 1200 to the present. Extensive map exercises familiarize students with the world around them and discussions of primary sources lay the foundation for historical and geopolitical analysis of civilizations in Europe, Asia, Africa, Latin America, and the Middle East. The course is arranged chronologically with emphasis placed on analytical essays and creative exercises in logic.

Students taking this level of World History are expected to work at a higher level of critical thinking and writing. This course will introduce students to AP history disciplinary practices and reasoning skills.

UNITED STATES HISTORY

Full-credit, graded course

- Required of all students in Form X not enrolled in Honors United States History.
- Prerequisites: Successful completion of World History
- Full year, 1 credit

United States History surveys the evolution of our country's history from the colonial era to the present. This course seeks to define who we are as a nation, what we believe in, and why we are as we are. The course concentrates on the following major topics: colonialism, revolution, nationalism, sectionalism, isolationism, imperialism, the role of women and people of color in the growth of the nation, economic change, and political development and reform. The class is student-centered and oriented toward

an open discussion of the challenges facing the United States. Independent research and cooperative learning projects are an integral part of the course. Numerous opportunities are provided to encourage reflective, independent thinking. Current events play a role in the daily life of this class.

HONORS UNITED STATES HISTORY

Full-credit, graded course

- Required of all students in Form X not enrolled in United States History.
- Prerequisites: Successful completion of World History or Honors World History with a grade of B+ or better; successful completion of Story Patterns/Archetypal Characters with a grade of B+ or better; departmental signature required.
- Full year, 1 credit

Honors United States History surveys, in greater depth, the evolution of our country's history from the colonial era to the present. This course seeks to define who we are as a nation, what we believe in, and why we are as we are. The course concentrates on the following major topics: colonialism, revolution, nationalism, sectionalism, isolationism, imperialism, the role of women and people of color in the growth of the nation, economic change, and political development and reform. The class is student-centered and oriented toward an open discussion of the challenges facing the United States. Independent research and cooperative learning projects are an integral part of the course. Numerous opportunities are provided to encourage reflective, independent thinking. Current

events play a key role in the daily life of this class.

Students taking this level of United States History are expected to work at a higher level and will be prepared to take the AP United States History exam in May.

CIVICS

Full-credit, graded course

- Required of all students in Form XI who do not enroll in AP US Government and Politics or who have not earned credit in Civics during CSG's Summer Program.
- Prerequisites: None
- Semester course (offered each semester), 0.5 credit
- Note: Students may not earn credit in both Civics and AP United States Government and Politics.

This course pursues a thematic approach to the political and social responsibilities required by residence in a nation served by a democratic constitution and tradition. Emphasis is placed on the development of critical thinking skills necessary for participation in social, civic, and political processes, recognition and consideration of moral dilemmas and ethical awareness, an appreciation of civic involvement and constructive social criticism, and the development of interpersonal skills necessary for the resolution of social conflicts. Students will study the primary documents of our democratic heritage with special emphasis on the Constitution as it relates to everyday situations, major Supreme Court decisions and a discerning analysis of civil liberties.

**ADVANCED PLACEMENT
UNITED STATES GOVERNMENT
AND POLITICS**

Full-credit, graded course

- Required of all students in Form XI who do not enroll in Civics.
- Prerequisites: Successful completion of United States History with a grade of B+ or better, or successful completion of Honors United States History with a grade B or better; departmental signature required.
- Full year, 1 credit
- Note: Students may not earn credit in both Civics and AP United States Government and Politics.

Advanced Placement United States Government and Politics will give students an analytical perspective on a variety of topics, institutions, groups, beliefs, and ideas that constitute political life in the United States. Topics of investigation include the underpinnings of constitutional government, the structure of national political institutions, public policy, political beliefs and behaviors, political parties, interest groups, mass media, and civil rights and liberties. We will also explore a wide variety of topics through current event discussions, primarily focusing on governmental policies and their political bias, bureaucratic reform, and the relationships between citizens and government institutions. Students will be prepared to take the AP United States Government and Politics exam in May.

FILM AND HISTORICAL TRUTH

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 1 course, 0.5 credit
- Offered This Year (2021-22): Offered during Semester 1 of

even-numbered graduation years.

This course will focus on the relationship between historical events and their depiction on film. In this regard, we will act as historians, working hard to understand past events and then assessing the accuracy and legitimacy of Hollywood's big screen. Our purpose is not to kick back with popcorn and enjoy the show, but to evaluate film as a primary source, a vehicle for the delivery of political propaganda and the establishment of cultural myth, or as a credible courier of Truth. In a seminar format, students will engage their critical thinking skills by viewing several important films and then by participating in research, analytical papers, class discussion, and presentation of ideas through argument and debate.

WORLD RELIGIONS

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 2 course, 0.5 credit Offered This Year (2021-21): Offered during Semester 2 of even-numbered graduation years.

This course provides an introduction to five major religions of the world: Judaism, Christianity, Islam, Buddhism, and Hinduism. Through primary sources and other readings, the historical roots and philosophical tenets of each are examined. This course stresses the importance of tolerance and the acceptance of diversity as fundamental elements in the expansion of knowledge and human interaction. By inviting speakers to the classroom and by occasionally asking students to attend services of different faiths,

this course provides interaction with the Columbus community.

**ADVANCED PLACEMENT
EUROPEAN HISTORY**

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of Civics with a grade of B+ or better or successful completion of AP United States Government and Politics with a grade of B or better; successful completion of English XI with a grade of B or better; departmental signature required.
- Full year, 1 credit

This course traces the history of Europe from the Renaissance to the present day and builds upon the student's knowledge of the narrative background established in World History. This class addresses the theme of change in history and emphasizes political revolutions (English Civil War, French Revolution, Revolutions of 1848, Russian Revolution, etc.), the social impact of economic conditions (Industrial Revolution), intellectual movements (Humanism, Scientific Revolution, and Enlightenment), and artistic schools (Romantics, Cubists, Surrealists, etc.). Major themes that have influenced our contemporary world are developed and historically traced: nationalism, liberalism, conservatism, industrialism, internationalism, imperialism, and socialism. Emphasis in this course is placed upon a critical and sophisticated analysis of primary and secondary historical sources, a personal definition of human nature, and an appreciation of the competing forces of history. There is considerable supplementary reading on particular themes that are examined in depth. Students

are prepared to take the AP examination.

**INTRODUCTION TO WOMEN'S
STUDIES**

Full-credit, graded course, Co-listed English and History departments

- Open to Form XI and XII
- Prerequisites: None
- Semester 1 only, 0.5 credit Course will be capped at 30 students based upon date of request.

This interdisciplinary course will introduce students to key concepts, issues, and debates in women's studies. Through readings, class discussion, analytical and persuasive writing assignments, and research and service projects, students will learn how culture and society shape gender and how gender intersects in complicated ways with issues of race, ethnicity, class, and nationality. The course will also focus on women's leadership and will emphasize hands-on, meaningful learning through community service. Texts will include autobiography, biography, nonfiction, fiction, and film and will draw from the fields of history, science, politics, economy, and the arts. Students will write position papers and textual analyses; they will also present their research on a variety of historical and current, national and international women's issues. "Introduction to Women's Studies" is cross-listed as a senior English elective and as the history department's senior / junior seminar. Students may take the course for either English or history credit, but those taking the course for history credit as seniors need to make sure they have fulfilled the graduation requirement of four years of English. Students may not take

the course twice.

**WOMEN IN AMERICAN
POLITICS**

Full-credit, graded course

- Open to Form XI and Form XII
- Prerequisites: Civics or AP Government
- Semester 2 only, based on course enrollment, 0.5 credit

This course examines women's evolutionary role in American politics as citizens, activists, voters, and elected officials, from the early leaders of the Iroquois nation to suffragists like Lucretia Mott to the first Black Congresswoman Shirley Chisholm. Topics will include, but are not limited to: the mobilization of women into politics through the suffrage movement and the modern women's movement; the role of gender in shaping public opinion and electoral behavior; public opinion and electoral behavior on gender issues; women's activities within the political parties; the experience of women candidates and officeholders; and policymaking on gender issues. Through extensive readings, analysis of primary sources, class discussions, conversations with female politicians, and individual research, students will learn about women's historical contributions as well as the present-day opportunities and obstacles for female candidates and female politicians. By the end of this course, students will understand the visible and invisible roles women played in American political history, concepts of gender, sex, and power, the gendered decisions of candidates, the roots of women's underrepresentation, and the structural barriers that prevent women and minorities from running for office. Students

will also consider possibilities for their own engagement in the political sphere by evaluating potential solutions to women's underrepresentation, applying empirical evidence to assess campaigns and elections, as well as draw connections between political theories and hands-on learning experiences.

NOT OFFERED THIS YEAR:

**CONTEMPORARY WORLD
ISSUES**

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 2, 0.5 credit
- Not Offered This Year: Offered during Semester 2 of odd numbered graduation years.
- Course may be capped at 18 based upon date of request; priority will be given to Form XII students.

This course will introduce students to global issues and institutions and the increased ties between economics, politics, cultures, and societies. We will debate the benefits and detriments of organizations, actions, and policies. Through readings, class discussion, analytical and persuasive writing assignments, projects, and debate, students will learn how governments and organizations work together to shape response to global issues such as terrorism, poverty, environmental change, trade, and more. Texts will include scholarly articles and film and will draw from the fields of history, science, politics, economics, geography, and sociology.

Students will write position papers and textual analyses; they will also present their research on a variety of current international

issues with special consideration to historical understanding. It is the intent of this class to provide a discriminating perspective to international problem solving in hopes of promoting tolerance and an appreciation of cultural diversity and interconnection.

POLITICAL SCIENCE

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 1 course, 0.5 credit
- Not Offered This Year: Offered every four years during Semester 1 of odd-numbered graduation years with presidential elections.

Political Science is an elective course designed to acquaint students with both political theory and practical politics. To that end, the course is divided into three subject areas: 1) Political theory 2) American campaign politics 3) Foreign Policy formulation. Topics studied include democracy, capitalism, Marxism, socialism, communism, fascism, liberalism and conservatism, revolution, imperialism, and civil disobedience. The class is student-centered with assignments that demand independent and creative thought. Political Science is oriented toward respectful, open discussion of different political experiences and viewpoints.

PHILOSOPHY

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 1 course, 0.5 credit

This course is an introduction to the discipline and tradition of philosophy. Students will study and discuss argumentative structure, epistemology, the good

life, metaphysics, the existence of God, ethics, political justice, and bioethics. Readings come from a range of philosophers throughout world civilization (ancient and modern, western and eastern) as well as novels relevant to topics at hand. The course is student-directed with an emphasis on analysis, self-reflection, discussion, and the written articulation of considered views. Assignments are meant to be exploratory, introspective, interactive, creative, and motivated by or relevant to students’ own philosophical questions. The goal is that by engaging with the past, each other, and themselves in this way, students will have a foundation for investigating the existential, moral, and political issues that confront them daily.

Independent Studies



PARTIAL-CREDIT, PASS/FAIL COURSE

- Open to Forms IX (Semester 2 only), X, XI, and XII; **this course may be taken more than once, each time for credit.**
- Prerequisites: Instructor’s agreement required, common time availability.
- Semester (offered each semester) or full-year course, 0.2 credits per semester.
- Meets 1 or 2 times a rotation based on the discretion of the instructor.
- Credit earned does not satisfy departmental graduation requirements.
- This course is scheduled at the beginning of the academic year with the student’s Independent Studies advisor.

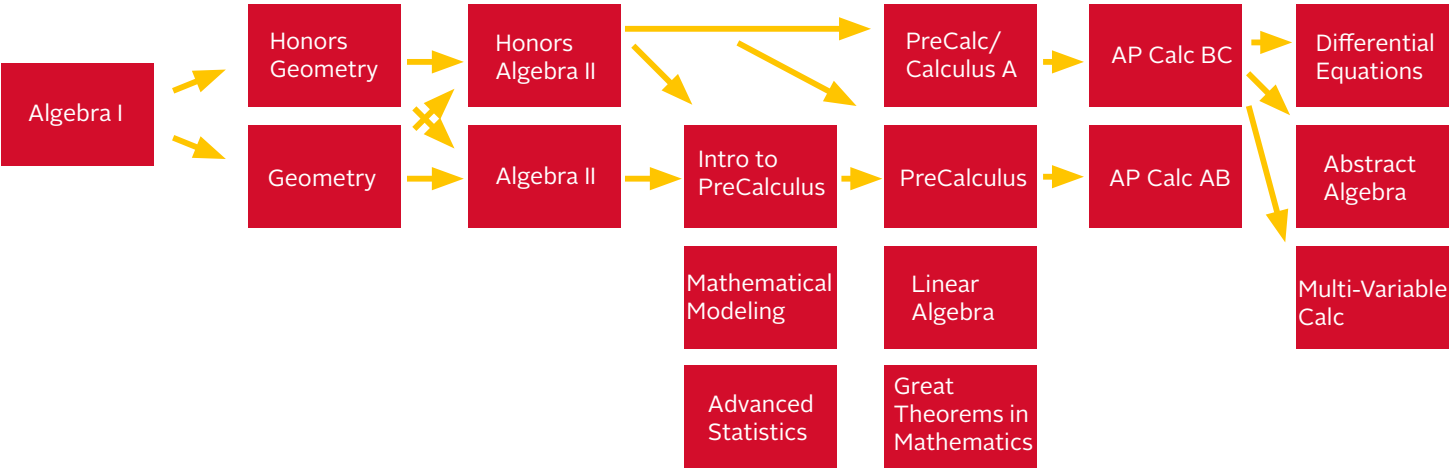
An independent study offers the student an opportunity to design a project in an area of interest to her. Upon the start of the academic year (or Semester 2 if the work is limited to that semester), the student must complete an Independent Study Contract. The student meets with a teacher on a regular basis for guidance and evaluation, but the majority of the time is spent in independent work. Meeting times will be arranged between the student and the faculty member once the school year begins. Students should plan to spend the equivalent of three periods per rotation on an independent study project. At least one period per rotation will be formally scheduled with the independent study teacher.

The final project is generated by the student and requires approval by the teacher. Independent projects are graded on a pass/fail basis and earn 0.2 credit per semester. Credit earned does not satisfy any departmental graduation requirement. Independent study projects may not be undertaken by Semester 1 freshmen. Neither required courses nor curricular requirements will be displaced by an independent study project.

Mathematics



The mathematics department is committed to a core college preparatory curriculum that reflects the mandates set forth by the National Council of Teachers of Mathematics in “Curriculum and Evaluation Standards for Teaching Mathematics.” Mathematics must be ever-developing so that students continually expand their understanding of mathematical concepts in both breadth and depth as they progress through middle school and upper school. We strive to maintain a balance between skills and concepts, the concrete and the abstract, intuition and formalism, structure and problem solving, and induction and deduction. The goals of the mathematics department are that all students learn to value mathematics; to apply mathematical techniques confidently, skillfully, and accurately; to reason mathematically; to become effective mathematical problem-solvers; to communicate mathematically; and to become efficient users of modern technology. Students are encouraged to seek out and to accept appropriate challenges as they pursue their mathematics education.



FOUNDATIONS IN ALGEBRA IB

Full-credit, graded course

- Required of all students in Form IX who did not study Algebra I in Middle School.
- Prerequisites: successful completion of Foundations in Algebra IA or equivalent course at another school
- Full year, 1 credit
- Technology required: TI-84+

Foundations in Algebra IB is an in-depth course in the study of algebra which provides the essential foundation for all further study of mathematics at the Upper School level. Students study operations with polynomial, rational, and radical expressions; factoring; solving linear, quadratic, absolute value, rational, and radical equations, inequalities and systems; and linear and quadratic functions and their graphs. Emphasis is placed on development of algebraic computational and problem-solving skills. Students are introduced to graphing technology.

GEOMETRY

Full-credit, graded course

- Open to Forms IX and X
- Prerequisites: Successful completion of or concurrent enrollment in Algebra I
- Full year, 1 credit
- Technology required: TI-84+

The content of Geometry includes a strong emphasis on the basic concepts of Euclidean Geometry and the development of logical reasoning, including the formal method of proof. Students study triangles and triangle relationships, quadrilaterals, similarity, right triangle trigonometry, circles, area and volume. Concepts of coordinate geometry and three-dimensional geometry are integrated with plane geometry throughout the course.

HONORS GEOMETRY

Full-credit, graded course

- Open to Forms IX and X
- Prerequisites: Form IX: Recommendation of the Middle School faculty; Form X: Successful completion of Algebra I with a minimum average of 90% and a minimum of 90% on the S1 exam.
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-84+

The content of Honors Geometry is similar to Geometry but emphasizes formal proofs and constructions.

ALGEBRA II

Full-credit, graded course

- Open to Forms X and XI
- Prerequisites: Completion of

Geometry and Algebra I

- Full year, 1 credit
- Technology required: TI-84+

Algebra II is a continuation of the study of algebra. Topics covered are a review of Algebra I, linear equations, quadratic equations, factoring, graphing using transformations, irrational and complex numbers, and exponential and logarithmic functions. Students enrolled in Algebra II will take Introduction to Precalculus the following year.

HONORS ALGEBRA II

Full-credit, graded course

- Open to Forms IX, X, and XI
- Prerequisites: Successful completion of Geometry with an average of 90% and a minimum score of 90% on the S1 exam or successful completion of Honors Geometry with an average of 80% and a minimum score of 80% on the S1 exam, and the recommendation of the Upper School faculty.
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-84+

Honors Algebra II is an in-depth course in which the student continues the study of algebra. The course content commences with a review of Algebra I topics

and progresses to include a study of the irrational and complex numbers, quadratic equations and functions, equations and numerical methods, exponential and logarithmic functions, sequences and series, probability, and trigonometry. Students in Honors Algebra II spend significant time investigating the graphs of functions and transformation of functions. Graphing technology plays an integral role in the learning of mathematics in this course. Because students enrolled in Honors Algebra II should plan to enroll in Precalculus the following year, they are expected to engage with the formative concepts of mathematics as well as to gain computational competence in the many areas of study which are presented.

ADVANCED STATISTICS

Full-credit, graded course

- Open to Forms X, XI and XII
- Prerequisites: Successful completion of either Algebra II or Honors Algebra II.
- Full year, 1 credit
- Technology required: TI-84+

Advanced Statistics is a year-long course that is the equivalent of a semester of introductory college statistics. The course provides students with a strong foundation in basic statistics. Students study four main concepts: data exploration, sampling and experimentation, probability and simulation, and statistical inference. In addition to thinking critically about the concepts, students are also expected to write clear and concise explanations. Students should expect to be challenged to think logically and critically to solve interesting and complex problems and, more importantly, to explain the method by which

they reached their conclusions. Though this course is taught in the mathematics department, statistics is a field of its own and the course is very different from a typical mathematics course.

INTRODUCTION TO PRECALCULUS

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Successful completion of Algebra II
- Full year, 1 credit
- Technology required: TI-84+

Introduction to Precalculus is a bridge course between Algebra II and Precalculus. It provides students with an opportunity to strengthen their algebra and problem-solving skills as well as to gain some experience with elementary Precalculus concepts prior to undertaking the more theoretical course in Precalculus. This course is a skill-level introduction to these topics. Graphing technology plays an integral role in the learning of mathematics in this course.

PRECALCULUS

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Successful completion of Honors Algebra II with a minimum average of 80% and a minimum score of 80% on the S1 exam or successful completion of Introduction to Precalculus; and the recommendation of the Upper School faculty
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-84+

This course focuses on the concepts and methods necessary for the study of college-level calculus. It enables students to model a written description

of a physical situation with a function; to use technology to help solve problems, experiment, interpret results, and verify conclusions; and to determine the reasonableness of solutions, including size, relative accuracy, and units of measurement. Students will be encouraged to communicate mathematics orally as well as in written form.

Particular emphasis is placed on the study of linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, absolute value, and piecewise functions, each of which will be represented in a variety of ways: graphical, numerical, analytical, and verbal. Additional topics studied include conic sections, complex numbers, vectors, and the polar coordinate system. The year ends with a chapter on limits, continuity, and derivatives.

PRECALCULUS/CALCULUS A

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Completion of Honors Algebra II with an average of 90% and a minimum score of 90% on the S1 exam and the recommendation of the Upper School faculty
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-84+

This course will cover all topics in both the traditional Precalculus course and the beginning topics of calculus. This class is offered to prepare our most accomplished mathematics students for our most advanced course offerings. Students who complete this course successfully will enroll in AP Calculus BC the following year.

The course teaches students to model a written description of a physical situation with a function; to use technology to help solve problems, experiment, interpret results, and verify conclusions; and to determine the reasonableness of solutions, including size, relative accuracy, and units of measurement. Students will be encouraged to communicate mathematics orally as well as in written form. Topics include logarithmic and exponential functions, trigonometry, sequences, series, analytic geometry, limits, and basic derivatives.

ADVANCED PLACEMENT CALCULUS AB

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Successful completion of Precalculus and the recommendation of the Upper School faculty
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-84+

This course consists of a full academic year of work in calculus that is comparable to courses in colleges and universities and prepares students for the AP Calculus AB examination. Centered on the themes of derivatives, integrals, limits, approximation, and applications and modeling, this course is primarily concerned with developing the students’ understanding of the concepts of calculus and providing experience with its methods and various interdisciplinary applications. It emphasizes a multi-representational approach to calculus, with concepts, results, and problems expressed geometrically, numerically, analytically, and verbally.

ADVANCED PLACEMENT CALCULUS BC

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Successful completion of Precalculus Calculus A or AP Calculus AB and the recommendation of the Upper School faculty
- Departmental signature required.
- Full year, 1 credit
- Technology required: TI-89 Titanium technology (on loan from CSG)

Through a multi-representational approach to calculus, with concepts, results, and problems expressed in geometric, tabular, numerical, analytic and verbal form, this course prepares students for the AP Calculus BC examination. Students are expected to work both together and independently to apply, to synthesize and to articulate their understanding of the interconnectedness of the various mathematical topics to which they have been introduced over the years. Students begin by exploring the concepts of derivatives of functions and relations; including parametric, vector-defined and polar functions; and their applications, and proceed to working with definite and indefinite integrals (including improper integrals) with applications, differential equations and mathematical modeling, and concludes with a study of sequences and series.

MATHEMATICAL MODELING FOR ENVIRONMENTAL AND SOCIAL JUSTICE

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Algebra II
- Semester 1 course, 0.5 credit
- Technology required: TI-84+

This course will give students practical experience doing mathematics in a real-world context and as a means for exploring and making recommendations on a contemporary issue. Students will investigate data display in historic and political contexts to learn to recognize bias in seemingly neutral media. They will learn methods of mathematical modeling and apply that knowledge to data relating to questions of environmental and social justice. Each project will be focused around a central theme and will answer questions which can be answered through research, data analysis, and interviews with experts in the field. Projects will be presented in a variety of formats, including podcasts, written reports, and panel discussions.

MATHEMATICS’ GREAT THEOREMS

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of, or concurrent enrollment in Precalculus; department signature required.
- Semester 2 course, 0.5 credit
- Technology required: TI-84+

In this course, students will spend time exploring, critiquing, and interpreting the mathematical arguments used to prove the great theorems that have guided mathematical thinking for thousands of years. Focusing on algebraic proofs and using only the math available to the original authors at the time they were written, we will learn the impact of those theorems on mathematics, science, society, and politics. This course will also expose students to a diverse group of individuals who developed the proofs of

the theorems and the social milieu in which they lived and worked, including the infighting, jealousy, and sabotage that nearly undid many of them. Through this exploration of the major theorems of math, students will grow to appreciate the foundation upon which their study of math has been built, as well as understand that their own mathematical thinking exists in a social context of other contemporary thinkers and that there are many mathematical questions that remain unanswered. Students will use the theorems studied as evidence to explore the unanswered question of whether mathematics is created or discovered.

MULTIVARIABLE CALCULUS: A SURVEY COURSE

Full-credit, graded course, offered in even graduation years
Open to Forms XI and XII

- Prerequisites: Successful completion of AP Calculus BC.
- Departmental signature required.
- Semester 1 course, 0.5 credit
- Technology required: TI-84+

This semester course follows AP Calculus BC and is an introduction to multivariable calculus. It is designed to be a college level course in terms of both its content and rigor. Applications to science and engineering will be highlighted throughout the course, and computer technology will be used to help students visualize the three-dimensional problems. The course content includes vector-valued functions, functions of several variables, partial derivatives, directional derivatives, gradients, extrema, multiple integrals, line integrals, Green’s Theorem, parametric surfaces, Divergence Theorem, and Stokes Theorem.

LINEAR ALGEBRA CONCEPTS
Full-credit, graded course, offered in even graduation years

- Open to Forms XI and XII
- Prerequisites: Successful completion of Honors Algebra II or Introduction to Precalculus.
- Departmental signature required.
- Semester 2 course, 0.5 credit
- Technology required: TI-84+

This semester course is a rigorous introduction to the study of linear systems through the use of matrix algebra. It provides the mathematical content necessary for application to college-level science and engineering classes. The course content includes systems of linear equations, matrices, determinants, vector space, coordinate systems and bases, linear transformations, eigenvalues, eigenvectors, inner product and orthogonality, orthogonal matrices, geometric and real-world applications.

NOT OFFERED THIS YEAR:

ABSTRACT ALGEBRA THEORY
Full-credit, graded course, offered in odd graduation years

- Open to Forms XI and XII
- Prerequisites: Successful completion of AP Calculus BC;
- Departmental signature required.
- Semester 1 course, 0.5 credit
- Not offered this year (2021-22).

Topics covered in this course include basic number theory, congruence and congruence classes, modular arithmetic, ring theory, arithmetic in $F[X]$, congruence in $F[X]$, and group theory. Possible additional topics include public-key cryptography, geometric construction, algebraic coding theory, and field extensions.

DIFFERENTIAL EQUATIONS: A SURVEY COURSE
Full-credit, graded course, offered in odd graduation years

- Open to Forms XI and XII
- Prerequisites: Successful completion of AP Calculus BC;
- Departmental signature required.
- Semester 2 course, 0.5 credit
- Technology required: TI-84+
- Not offered this year (2021-22).

This course is a study of the basic concepts and methods for solving ordinary differential equations. Topics include slope fields; separable, linear, exact, Bernoulli, and homogeneous first order equations; homogeneous and nonhomogeneous second and higher order linear equations; Laplace transforms; series solutions; and numerical methods. Applications to physical sciences and engineering are highlighted.

Publications



NEWSPAPER (Silhouette)

Newspaper Workshop (Editors)
Partial-credit, graded

- Requires submission of an application, writing and page layout samples, and approval and signature of the faculty advisor.
- Full year, 0.4 credits

Newspaper Workshop (Staff)
Partial-credit, pass/fail

- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit.
- May be taken one or two semesters, 0.2 credits per semester

This workshop gives students an opportunity to participate in the publication of the Columbus School for Girls newspaper, Silhouette. Activities include writing and editing articles and using InDesign to lay out pages. Each student will have an active

role in the publication along with instruction in journalistic writing.

YEARBOOK (Topknot)

Yearbook Workshop (Editors)
Partial-credit, graded

- Prerequisites: Approval and signature of faculty advisor
- Completion of at least one semester as Staff.
- Open to XI and XII
- Full year, 0.4 credits

Yearbook Workshop (Staff)
Partial-credit, pass/fail

- Open to Forms IX, X, XI, and XII; this course may be taken more than once, each time for credit
- Full year, 0.4 credits

This workshop affords students an opportunity to participate in the publication of the Columbus School for Girls yearbook, Topknot. Activities include digital layout design online, digital photo editing and cropping, and

copywriting to prepare materials for use by a publishing company. Students interested in taking pictures for the yearbook are encouraged to sign up for the class but may still contribute to the publication if this class will not fit into their schedules.

Science



The science department strives to help students 1) realize that science is fascinating, fun, and rewarding; 2) understand that scientific discovery is an ongoing, ever broadening, self-correcting search for answers, and that any one discovery leads to further questions and experimentation rather than an absolute or ultimate truth; 3) appreciate how the cooperative nature of the current scientific enterprise works and be able to make clear judgments regarding their roles in today's technological and competitive world; and 4) learn the fundamental facts, concepts, and laboratory and reasoning skills which are basic to further formal study in the individual scientific disciplines.

BIOLOGY

Full-credit, graded course

- Required of Form IX students not enrolled in Honors Biology
- Prerequisites: None
- Full year, 1 credit

This course is designed to develop understanding of the essentials of living systems at a variety of scales, from biochemical reactions and cellular metabolism to evolutionary biology and global ecology. Emphasis is placed on connecting new knowledge to past work in science classes and on connecting biology to their own lives. Classwork takes many forms, including lecture, video, student presentations, games, and laboratory experiments and simulations. All laboratory work includes safe use of materials and appropriate laboratory techniques. Students will also use the course content, experiences, and online textbook to develop study and organization skills essential to academic success in science and beyond.

HONORS BIOLOGY

Full-credit, graded course

- Required of Form IX students not enrolled in Biology
- Prerequisites: Recommendation of Middle School faculty
- Full year, 1 credit

This course is designed to develop understanding of and respect for the vast array of life processes and the interconnectedness of all life. In addition to science as a process, this course emphasizes the diversity and unity of all life through topics such as evolution, ecology, genetic inheritance and expression, and cellular processes and functions including energy conversion, growth, and development. The

course emphasizes the relation of biological concepts directly to the students' life experience, while developing the organization skills necessary to sort and assimilate concepts. Class work includes incorporating electronic textbooks, inquiry-based simulations, a variety of laboratory experiences as well as projects and assessments. Students are expected to learn both traditional laboratory skills and computer-based skills. This laboratory work includes safe use of materials and appropriate laboratory techniques.

ADVANCED PLACEMENT BIOLOGY

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Honors Biology or Biology with a grade average of B+ or better and successful completion of either Honors Chemistry or Chemistry with a test grade average of B+ or better; departmental signature required.
- Full year, 1 credit
- A final graded assessment is required; taken during an academic day in April, it will count as a CSG Semester 2 examination or a major portion of the student's semester grade.

This is a college-level survey course that prepares students for the AP Biology examination. Major areas of study are centered around four Big Ideas: 1) the process of evolution drives diversity and unity of life; 2) biological systems utilize free energy and molecular building blocks to grow, reproduce, and maintain homeostasis; 3) living systems receive, transmit, and respond to information; and 4) biological systems interact. This fast-paced course has a

significant laboratory component with long- and short-term experiments, allowing students to develop scientific research skills and present their results through papers, poster sessions, and discussion. Students will also be guided as they read professional scientific papers and relate them to their own experimental work.

HUMAN ANATOMY AND PHYSIOLOGY

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Biology or Honors Biology and Chemistry or Honors Chemistry
- Full year, 1 credit
- Offered every year

Human Anatomy and Physiology is a course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body, its biochemical composition, and the major body systems, along with the impact of diseases on certain systems. From biochemistry and anatomical terminology to the large-scale details of each of the major body systems, students will learn through print and digital reading materials, digital and kinesthetic activities, group work, projects, and labs. Students will reinforce their study using Anatomy in Clay MANIKEN models throughout the year to sculpt the muscles, organs, nerves, arteries, veins, and other structures of the human body in clay.

CHEMISTRY

Full-credit, graded course

- Required of Form X students not enrolled in Honors Chemistry
- Prerequisites: Successful completion of Biology or

- Honors Biology
- Full year, 1 credit

Chemistry is a laboratory and inquiry-based course. This course covers the major concepts of chemistry, placing more emphasis on the fundamentals of chemistry and how they impact our daily lives and less emphasis on the mathematics of chemistry than is taught in Honors Chemistry. In addition, students master scientific skills including observation, data collection, hypotheses and predictions, and synthesis skills to make and support scientific claims. Each unit in Chemistry includes laboratory exercises, problem-based group activities, assessments and self-directed study options. Students will learn through class lectures, labs, activities and independent work that includes digital and print media, interactive digital media giving students the ability to explore different styles of learning. This course is not designed to prepare the student for the College Board SAT II test in Chemistry, but does fulfill the prerequisite for AP Biology and Organic Chemistry.

HONORS CHEMISTRY

Full-credit, graded course

- Required of Form X students not enrolled in Chemistry
- Prerequisites: Recommendation of biology teacher; departmental signature required
- Full year, 1 credit

The emphasis of this course is on the experimental approach and the development of unifying concepts. Understanding and application of chemical principles is stressed while memorization of factual material is minimized. Concepts discussed are generally

related to laboratory experiences or to demonstrations. Topics include: laboratory techniques, quantitative problem-solving strategies, chemical formulas and equations, stoichiometry and the mole concept, atomic structure, the periodic law, bond formation and molecular geometry, kinetic theory and gas laws, enthalpy and entropy, chemical kinetics, solutions, equilibria, acid-base theories, oxidation-reduction, electrochemistry, and the important role of chemistry in our society. Classroom methods include demonstrations, discussions, small group problem-solving exercises, and lectures. Online computer links are available for drill and enrichment. Students enrolling in this class should have a high comfort level with Algebra I. This course is designed to prepare the student for the SAT II test in Chemistry.

ORGANIC CHEMISTRY I

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Chemistry or Honors Chemistry
- Semester 1 course, 0.5 credit
- Offered this year (2021-22); offered during Semester 1 of even-numbered graduation years

This course provides a conceptually-based treatment of the fundamentals of organic chemistry and serves as a good introduction to basic principles used in the medical and pharmaceutical fields. Students will cover concepts of naming compounds, basic molecular structure and geometry, organic functional groups, structural and stereoisomers, and basic organic chemical reactions. We will also discuss analysis of organic compounds by interpreting

infrared and nuclear magnetic resonance spectroscopy as well as mass spectroscopy. The laboratory component will look at separation and analysis of organic compounds in a mixture.

ORGANIC CHEMISTRY II

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Organic Chemistry I
- Semester 2 course, 0.5 credit
- Offered this year (2021-22); offered during Semester 2 of even-numbered graduation years

This course provides a conceptually-based treatment of the fundamentals of organic chemistry and builds off of basic principles presented in Organic Chemistry I. Continuing with the concepts introduced and developed in the first semester, mechanisms of reactions will be explored through application of thermodynamics and kinetics. The predomination of substitution vs. elimination mechanics in certain reactions will also be investigated. Basic discussions around alkanes will expand to include alkenes and alkynes, and general reactions with functional groups will be discussed.

ADVANCED PLACEMENT CHEMISTRY

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Honors Chemistry with a grade average of A- or better; departmental signature required
- Full year, 1 credit
- A final graded assessment is required; taken during an academic day in April, it will count as a major portion of the

student's semester grade

This is a college-level course that follows the Advanced Placement curriculum set forth by the College Board. Major topics covered in the course are the electromagnetic spectrum, chemical bonding and geometries, intermolecular attraction, stoichiometric relationships, chemical reactions and trends, gas laws, solutions, chemical equilibria, solubility, chemical kinetics, acid-base chemistry, oxidation-reduction, electrochemistry, and basic organic chemistry. An emphasis is placed on critical analysis, laboratory procedures, and technology in science. Laboratory material reinforces the principles and concepts covered in the lecture class. Textbook and laboratory examples will be covered in preparation for the Advanced Placement Chemistry examination.

PHYSICS

Full-credit, graded course

- Required of Form XI students not enrolled in Honors Physics
- Prerequisites: Successful completion of Chemistry or Honors Chemistry
- Full year, 1 credit

This course provides a conceptually-based treatment of the fundamental principles and processes of the physical world. With the use of basic algebra skills, topics such as motion, forces, energy, sound, light, electricity and magnetism will be covered. Upon completion, students should be able to describe the principles studied with the use of examples and applications. Laboratory investigations, films and computer-based models will be used to strengthen the

understanding of concepts. In addition to providing students with a clearer understanding of their physical world, this course seeks to enhance their natural curiosity and strengthen their ability to reason clearly and effectively. This course is not designed to prepare the student for the SAT II test in physics.

HONORS PHYSICS

Full-credit, graded course

- Required of Form XI students not enrolled in Physics
- Prerequisites: Successful completion of Chemistry with a B+ or better or Honors Chemistry with a grade of B or better; concurrent enrollment in or successful completion of Precalculus; departmental signature required
- Full year, 1 credit

Honors Physics challenges the student both to conceptualize and to resolve problems in Newtonian mechanics and dynamic. Topics include: 1D/2D motion, forces and Newton's Laws, circular motion, rotational motion, torque, rolling motion, momentum and collisions as well as energy and work, and as time allows, oscillations, sound and basic circuits. Lectures, discussions and laboratory exercises are used to explore these topics. The course is supplemented with films, demonstrations, and computer simulations. In addition to providing students with a clearer understanding of their physical world, this course seeks to enhance their natural curiosity and strengthen their ability to reason clearly and effectively. This course is not designed to prepare the student for the SAT II test in physics.

ADVANCED PLACEMENT PHYSICS C: MECHANICS

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of Honors Physics with a test grade average of B+ or better; concurrent enrollment in or successful completion of AP Calculus; departmental signature required
- Full year, 1 credit
- A final graded assessment is required; taken during an academic day in April, it will count as a CSG Semester 2 examination or a major portion of the student's semester grade.

The AP Physics C – Mechanics course is calculus-based and follows the AP course description as provided by the College Board. This college-level physics course challenges the student both to conceptualize and to resolve problems in kinematics, Newton's laws of motion, work, energy and power, impulse and momentum, circular motion and rotation, oscillations and gravitation. If time permits, some topics not included on the AP Physics C Mechanics test such as waves, sound, optics and electrostatics, and electric circuits might also be covered. The laboratory component will have a strong emphasis on “open-ended” labs in which the student makes careful observations of physical phenomena. The course is supplemented with films, demonstrations and computer modeling. In addition to providing students with a clearer understanding of their physical world, this course seeks to enhance their natural curiosity and strengthen their ability to reason clearly and effectively. Textbook and laboratory examples will be covered in

preparation for the Advanced Placement Physics C: Mechanics examination.

ROBOTICS TEAM LEADERSHIP

Partial-credit, pass/fail

- Required of Team Captains; strongly recommended for all team members in a leadership position; open to any team member; this course may be taken more than once, each time for credit.
- Prerequisites: Completion of one full year of team membership; Robotics Team
- Advisor signature required
- Full year course; 0.4 credits

This class will provide team leaders with the opportunity to build their leadership, planning, and management skills while developing Fall Labs, build-season activities, educational field trips, fundraising and outreach activities, team policies, and competition strategies. This class will meet one time each rotation. Single semester enrollment is an option for all but Captains; Team Advisor’s signature required.

PRINCIPLES OF ENGINEERING AND DESIGN

Full-credit, graded course

- Open to students in Forms X, XI, and XII
- Prerequisites: None
- Offered both semesters this year, 0.5 credit

This course will expose students to the engineering design process including team development, brainstorming, drawing and modeling, reverse engineering, research and analysis, communication methods, technical documentation, and manufacturing. A component of this course will be learning the basics of a state-of-the-art 3D solid modeling design software

(such as Autodesk Inventor, SOLIDWORKS, or TinkerCAD). In addition to learning the basics of solid modeling and computer-aided-design, students will be introduced to rapid prototyping via the use of three-dimensional printers, the Glowforge laser cutter and engraver, and will work with Arduino Uno microcontroller units, providing a platform for prototyping electromechanical devices. The application of the design process to the worlds of robotics, product design, theater set design, and visual arts will be discussed in order to emphasize the interdisciplinary nature of engineering and design. Additional activities in this course could include discussions, guest speakers, class exercises, case studies, labs, and student presentations. As a final project for this course, the students will apply the tools and techniques learned during the semester. The final project will be student-specific and will relate to the student’s own interests.

SCIENTIFIC RESEARCH METHODS

Full-credit, graded course

- Open to students in Forms XI and XII
- Prerequisites: None
- Semester 1 or 2 course, 0.5 credit
- Offered both semesters this year (2021-22); offered during even-numbered graduation years.

What does it mean to conduct scientific research? What decisions go into designing a “good” experiment? How do you present the results of your experiment? How do you analyze a scientific article? This course will teach you to conduct research in accordance with scientific methodology.

You’ll learn to read and analyze peer-reviewed primary literature articles in science and engineering subjects, conduct your own scientific experiments, analyze your results, and present your findings in written word, oral presentation, and graphs. The course will help to develop the core skills of a scientist and give you the research tools to succeed in any scientific field. Students will design and conduct their own experiments in biology, psychology, ecology, chemistry, physics, or (almost) any other scientific field of interest. The semester will culminate in a research symposium where students will present their research to peers and faculty.

NOT OFFERED THIS YEAR:

ASTRONOMY I

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 1 course, 0.5 credit
- Not offered this year (2021-22); offered during Semester 1 of odd-numbered graduation years

Astronomy I is a descriptive introduction to the foundational principles of astronomy with a focus on our astronomical neighborhood, the solar system. Topics covered include the history of astronomy, ancient and modern astronomical tools, interactions of the Earth, Moon, and Sun, gravitation and the motion of the planets, the formation of the solar system, and comparative planetology. The course also reviews some basic concepts from biology, chemistry, and physics. While not math-intensive, this course will use mathematical equations (density, velocity, momentum, etc.) to describe observed phenomena where appropriate. Class work

is supplemented by laboratory activities and research projects.

ASTRONOMY II: COSMOLOGY

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: None
- Semester 2 course, 0.5 credit
- Not offered this year (2021-22); offered during Semester 2 of odd-numbered graduation years

Astronomy II: Cosmology focuses on the study of the origin of the universe and the largest objects in it. Topics covered include the life and death of stars, special relativity and black holes, the formation and types of galaxies, and the Big Bang Theory. Students in the course will also be able to use what we know about the universe today to predict its ultimate fate. This course reviews some basic concepts from biology, chemistry, and physics. While not math-intensive, this course will use mathematical equations to describe observed phenomena where appropriate. Class work is supplemented by laboratory activities and research projects. This course can be taken independently of, or in sequence with Astronomy I.

Social/Emotional Learning



EXPLORING DIVERSITY THROUGH INQUIRY I

- Partial-credit, pass/fail course*
- Open to Forms X, XI, and XII
 - Prerequisites: None
 - Semester course (offered each semester based upon course enrollment), 0.35 credit

This course explores issues of race, class, gender, religion, and other core identifiers. The course will encourage conversation along with personal reflection, which will allow students to think creatively rather than stereotypically about differences. Using the Transformational Inquiry model, our students will examine their own identities, learn through reading and research and take personal and collaborative action within their own community. Students will cultivate valuable communication skills while engaging in critical thinking. This course includes current events, historical perspectives, intersectionality, social justice and anti-bias perspectives.

EXPLORING DIVERSITY THROUGH INQUIRY II

- Partial-credit, pass/fail course*
- Open to Forms X, XI, and XII
 - Prerequisites: Exploring Diversity Through Inquiry I
 - Semester course (offered in one semester only based upon course enrollment), 0.35 credit

This course is open to students who have passed Exploring Diversity Through Inquiry I, and it deepens and broadens the conversations about personal identity, diversity, and equity students started in EDI.

FORM IX SEMINAR

- No credit, pass/fail course*
- Required for Form IX
 - Prerequisites: None
 - Full-year course

The seminar course at CSG is a required class for all students in Forms IX and X. Class is held once every rotation. Designed by the Learning Specialist and Director of Counseling and Wellness, seminar addresses the transition into Upper School, social emotional learning, diversity and

executive functioning skills. It is a combination of brief lectures, group discussion and activities with the incorporation of multimedia.

FORM X SEMINAR

- No credit, pass/fail course*
- Required for Form X
 - Prerequisites: None
 - Full-year course

The seminar course at CSG is a required class for all students in Forms IX and X. Class is held once every rotation. Designed by the Learning Specialist and Director of Counseling and Wellness, seminar addresses the transition into Upper School, social emotional learning, diversity and executive functioning skills. It is a combination of brief lectures, group discussion and activities with the incorporation of multimedia.

World Languages



The CSG World Languages Department strives to provide every student with meaningful study of languages and cultures. Our course offerings are in Latin, Mandarin, and Spanish. We guide our students in the development of communication and multicultural skills to become confident leaders and lifelong learners in an interconnected world. Our students undertake a journey of discovery and pursue their language studies to their highest potential, resulting in deeper cultural understanding and an enriched life experience. Developing the skills to become an effective language learner requires continuity and frequency. In the Upper School, The first three levels of a language form a foundation upon which significant oral proficiency and cultural understanding can be achieved. The process of language acquisition as an academic and natural endeavor is both valuable and necessary for the 21st century student. For this reason, satisfactory completion of a world language through Level III is required for graduation. Beyond the graduation requirement, it is normal and encouraged that students take a language though their senior year. Upper School World Language classes highlight, practice and assess three approaches to language production and communication: interpretive, interpersonal and presentational. Students read, listen, speak and write on authentic and relevant topics of the target language. Many of our students prepare for and participate in service trips to many target language countries around the world.

LATIN

LATIN I

- Full-credit, graded course*
- Open to Forms IX, X, XI and XII (scheduling priority is given to students in Form IX); seniors may take a first-year language only as a sixth course and are given last priority in scheduling.
 - Prerequisites: Forms IX, X, and XI - none; Form XII - the student must be enrolled in five other full-credit courses each semester.
 - Full year, 1 credit

Formal introduction to the classical language is accomplished through a blend of the reading and grammar approaches using Lingua Latina. The textbook is supplemented with Latin readings from Colloquia Personarum. The focus of the course is on developing reading proficiency and mastery of fundamental Latin vocabulary and grammar. Systematic expansion of English vocabulary occurs through detailed study of Latin stems and modern root derivation. Students learn

about Roman history and culture through a variety of English readings and creative projects.

LATIN II

- Full-credit, graded course*
- Open to Forms IX, X, XI, and XII
 - Prerequisites: Successful completion of Latin I; for rising Form IX CSG students, successful completion of Latin in Form VIII with a grade of B- or better and departmental signature.
 - Full year, 1 credit

Students continue with the reading-approach in Lingua Latina textbook series. More complex grammar is introduced, including the subjunctive mood, participles, gerunds, gerundives, and all varieties of subordinate clauses. Students are further exposed to Roman culture and history through a variety of readings in English and lectures provided by the instructor. Introductory skills in Latin prose composition are acquired.

LATIN III

- Full-credit, graded course*
- Open to Forms X, XI and XII
 - Prerequisites: Successful completion of Latin II
 - Full year, 1 credit

In the student’s third year, coursework transitions from slightly adapted Latin to real Latin with readings drawn from authors such as Cicero, Livy, and Catullus. Grammar is renewed in depth with concentration on those forms and grammatical constructions found in standard prose authors and culminates in more advanced prose compositions based on the style of Cicero. Rhetorical devices, stylistic elements and literary tropes are discussed in depth as each author is encountered. In addition, an appreciation of classical literature is encouraged through reading various works of Greek and Roman literature.

LATIN IV

- Full-credit, graded course*
- Open to Forms XI, XII
 - Prerequisites: Successful completion of Latin III
 - Full year, 1 credit

This course is a survey of Latin literature. In the fall, students focus on prose with Cicero, Caesar, and historians like Sallust

& Tacitus. In the spring, they turn to Augustan poetry and authors like Ovid, Horace, and Vergil. Scansion of dactylic hexameter and elegiac couplets are studied in depth, with the student attaining mastery in this area by the end of the course.

ADVANCED PLACEMENT LATIN

- Full-credit, graded course*
- Open to Forms XI, XII
 - Prerequisites: Successful completion of Latin IV with a grade of A- or better or instructor approval; a consistently strong work ethic and exceptional talent in listening, reading, speaking, or writing; departmental signature required.
 - Full year, 1 credit
 - A final graded assessment is required; taken during an academic day in April, it will count as a CSG Semester 2 examination or a major portion of the student’s semester grade.

The AP Latin course is designed to prepare students for undergraduate Latin translation and Classics courses as well as the Advanced Placement examination in Latin. Some class time will be spent discussing the format of the exam, its scoring, and successful test-taking strategies. Students will work on numerous practice exercises from practice AP Exams to become as familiar with the test as possible. In the course, students comprehensively read, discuss, and interpret Virgil and Caesar in preparation for the AP Latin exam, but also a variety of canonical prose authors such as Cicero, Livy, Sallust, and Seneca and canonical poets such as Ovid, Catullus, Horace, and Propertius. Students study scansion of dactylic hexameter and elegiac

couplets through in-depth, accelerated study of the major poets. Students will read the relevant biographical and stylistic information for each author from Gian Biagio Conte’s Latin Literature.

ADVANCED READINGS IN LATIN LITERATURE

- Full-credit, graded course*
- Open to Forms XI, XII
 - Prerequisites: Successful completion of AP Latin with a grade of B or better; a consistently strong work ethic and exceptional ability to analyze, comprehend, and translate Latin; departmental signature required.
 - Full year, 1 credit

The Advanced Readings in Latin Literature course provides students who have completed AP Latin an opportunity to translate and analyze particular Latin authors not covered by the AP Latin curriculum. The course focuses on the genres of biography & philosophy. Students read and analyze authors like Cornelius Nepos, Suetonius, Seneca, Lucretius, and Apuleius.

There is also a significant research writing component to the course that emphasizes breadth of preparation and analysis.

MANDARIN CHINESE

MANDARIN CHINESE I

- Full-credit, graded course*
- Open to Forms IX, X, XI and XII (scheduling priority is given to students in Form IX); seniors may take a first-year language only as a sixth course.
 - Prerequisites: Forms IX, X, and XI, none; Form XII, the student must be enrolled in five other full-credit courses each

- semester.
- Full year, 1 credit

Chinese I will be taught through a method called TPRS (Teaching Proficiency through Reading and Storytelling). The class will focus on providing students with lots of compelling and comprehensible input (like an immersion setting) of Chinese language and culture before requiring students to produce the language on their own. Teaching content will include funny videos, clips from selected Chinese soap operas, songs, reality television shows, and lots of patterned stories. Eventually, students will feel very comfortable speaking Chinese, without the pain of rote memorization of vocabulary lists. Reading and typing in Chinese will also be covered.

Students will learn Chinese language and culture through such activities as asking and answering personalized questions, playing language games, performing skits, watching Chinese soap operas, sampling Chinese food and drinks, celebrating Chinese holidays, participating in field trips, and/or listening to outside speakers.

The topics that will be covered in class include: Chinese greetings, self-introduction, family relationships, days of the week, telling time, daily schedules, discussing hobbies, visiting friends, ordering food and beverages, the weather, Chinese New Year, and Chinese poetry.

The content of Chinese I will be limited to the most essential vocabulary and language patterns. Nevertheless, by the end of the course, students will be able to express themselves

on familiar topics using learned material and memorized phrases.

MANDARIN CHINESE II

- Full-credit, graded course*
- Open to Forms X, XI, and XII
 - Prerequisites: Successful completion of Mandarin Chinese I
 - Full year, 1 credit

Chinese II will continue to be taught through a method called TPRS (Teaching Proficiency through Reading and Storytelling). The class will focus on providing students with lots of compelling and comprehensible input (like an immersion setting), building on what the students have mastered in Chinese I. Teaching content will include funny videos, clips from selected Chinese soap operas, songs, reality television shows, and longer stories and Chinese novels than in Chinese I. Students will also engage in more sophisticated conversations and discussions, using connected sentences.

Students in Chinese II will continue to develop their skills in listening, speaking, reading, writing, and typing Chinese. The focus will be on using Chinese in real-life contexts, combining the study of both Chinese language and culture. Additional class activities will include taking field trips and interviewing native Chinese speakers. At the end of this course, students will be able to form their own sentences in order to handle a number of uncomplicated communicative tasks. These will include comparing school life in China and the U.S., going shopping, taking public transportation, asking for directions, making and eating Chinese food, describing the various Chinese cuisines, and

- visiting other people’s homes.
- MANDARIN CHINESE III**
- Full-credit, graded course*
- Open to Forms XI and XII
 - Prerequisites: Successful completion of Mandarin Chinese II
 - Full year, 1 credit

Chinese III will continue to be taught through a method called TPRS (Teaching Proficiency through Reading and Storytelling). The class will focus on providing students with lots of compelling and comprehensible input (like an immersion setting), building on what the students have mastered in Chinese I and II. Teaching content (in Chinese) will include funny videos, soap operas, movies, songs, reality television shows, and longer stories and Chinese novels than in Chinese II. Students will also engage in more sophisticated conversations and discussions, producing strings of sentences and expressing their opinions regarding a large range of topics.

Students in Chinese III will continue to develop their skills in listening, speaking, reading, writing, and typing Chinese. Class activities will focus on using the language in real-life contexts, combining the study of both Chinese language and culture. In addition, students will participate in scavenger hunts, take field trips, have group discussions, write their own stories, and interview native Chinese speakers.

The topics covered will include describing locations and places, introducing the home and community environment, Chinese folk stories, the history of Chinese food, Chinese geography, traveling and transportation in

various regions in China, physical features, and the philosophy of aesthetics in Asian cultures. At the end of this course, students will be able to handle a wide range of uncomplicated communicative tasks by creating their own sentences.

MANDARIN CHINESE IV

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of Mandarin Chinese III
- Full year, 1 credit

Chinese IV will continue to be taught through a method called TPRS (Teaching Proficiency through Reading and Storytelling). Also, students will continue to develop their skills in listening, speaking, reading, writing, and typing Chinese.

Chinese IV will focus on providing students with lots of compelling and comprehensible input (like an immersion setting), building on what the students have mastered in Chinese I, II, and III. However, more emphasis will be placed on student language output in real-life simulated situations than in the earlier levels. For example, students will engage in more sophisticated conversations and discussions both among themselves and with native Chinese speakers. In addition, students will read an entire Chinese novel (The Monkey's Paw) and write whole paragraphs in Chinese, expressing their opinions in detail.

The topics covered will include traditional Chinese housing, the concept of Feng Shui, China's geography and landscapes, Chinese literature, and environmental protection. There will also be field trips to

Columbus' CAM international market and to a Chinese restaurant.

At the end of this course, students will be able to handle a wide range of uncomplicated communicative tasks by creating their own detailed sentences. Thus, students will be at the "Intermediate Low to Mid" proficiency level designated by the American Council on the Teaching of Foreign Languages.

MANDARIN CHINESE V

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of Mandarin Chinese IV
- Full year, 1 credit

This course challenges students to develop their conversational fluency in formal and informal discussions based on topics related to themselves, familiar issues in their community, and issues around the world (such as political events, historical stories, and contemporary news). An additional topic will be a historical study of doing business in China, beginning with the ancient Silk Road.

Readings will include the Chinese folk story Meng Mu San Qian (concerning the effect of parental influences and living environments on education) and the Chinese documentary film Please Vote for Me (concerning student elections in a Chinese school). In addition, students will read an entire Chinese novel (Great Expectations).

There will be field trips to visit the Columbus School of Chinese and a Chinese "Hot Pot" restaurant. Also, outside speakers (on such topics as

Chinese history) will be invited to address the class. Through extensive reading, writing and discussion, students will achieve the "Intermediate Mid" proficiency level designated by the American Council on the Teaching of Foreign Languages.

SPANISH

SPANISH I

Full-credit, graded course

- Open to Forms IX, X, XI, and XII students who did not take Spanish in Middle School (scheduling priority is given to Form IX); seniors may take a first-year language only as a sixth course and are given last priority in scheduling.
- Prerequisites: Forms IX, X, and XI, none; Form XII, the student must be enrolled in five other full-credit courses each semester.
- Full year, 1 credit

This course teaches the basics of Spanish grammar. Emphasis is placed not only on written expression and correct grammar usage, but also on proper oral expression and pronunciation. Students are encouraged to be creative with the language and speak it as much as possible in class. Daily assignments and in-class activities, such as written exercises, board work, question-answer routines, mini-plays, listening exercises, and Spanish language videos, challenge students to continually practice and improve their Spanish listening, speaking, reading, and writing skills, as well as build their vocabulary. This class is conducted primarily in Spanish.

SPANISH II

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Successful

completion of Spanish I in Middle or Upper School with a grade of B or better; rising Form IX students currently enrolled at CSG must have the recommendation of the Form VIII Spanish I teacher.

- Full year, 1 credit

This course reviews and builds on the basics of Spanish grammar learned in Spanish I. It includes a detailed study of new grammar, including nearly every verb tense in the Spanish language as well as many other grammatical topics. Reading and writing skills are practiced through daily assignments and board work. There is an increased emphasis on speaking and listening skills in level II, and thus many in-class activities are geared toward working on those skills. Students speak with partners, perform skits in groups, and engage in conversation with the teacher on a daily basis. New vocabulary is learned in each unit; however, students are strongly encouraged to make use of dictionaries and to practice circumlocution whenever they can. Class is conducted primarily in Spanish.

SPANISH III

Full-credit, graded course

- Open to Forms IX, X, XI, and XII
- Prerequisites: Form IX: Successful completion of Spanish I in Middle School with a grade of A, rising Form IX students currently enrolled at CSG must also pass a placement test and have the recommendation of the Form VIII Spanish I teacher; Form X: Successful completion of Spanish II.
- Full year; 1 credit

This course provides an intensive review of the grammar learned in Spanish II, and it also introduces

new grammatical and literary topics in Spanish. In addition, this course focuses on the history and culture of the many Hispanic people in the United States (Hispanic Americans), Mexico, Cuba, Puerto Rico, and Spain. Historical/cultural readings from the textbook, in conjunction with literature, videos, and art, are used to foster the students' understanding of these countries. This information also serves as a source for class discussion and for many class assignments, such as papers, skits, projects, etc. Great emphasis is placed on speaking Spanish at all times in class, and the students are encouraged to be creative with the language. This class is taught entirely in Spanish.

SPANISH IV

Full-credit, graded course

- Open to Forms X, XI, and XII
- Prerequisites: Successful completion of Spanish III
- Full year, 1 credit

This course reviews all the more challenging and important grammatical concepts in Spanish, while also providing a greater focus on Hispanic literature, culture and history. Students will read several selections. They will also learn about the history and culture of Hispanic countries via articles and videos. In addition, students will watch and interpret critically acclaimed movie shorts from all over the Spanish speaking world. All of these readings, videos and movies will serve as the source for class discussions and numerous assignments, including papers, skits, as well as group and independent projects. The main goal for this class is to work on and improve the student's language skills while solidifying their cultural competence. This

class is taught entirely in Spanish, and students are expected to participate daily in Spanish.

SPANISH V

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Spanish IV
- Full year, 1 credit

This course is open to all students who wish to study and review Spanish literature and grammar. Emphasis is placed on the reading and study of short stories and poems as well as the application of key grammatical points to written and oral language. Class discussions will be conducted in Spanish. Students will practice the spoken language, debate current political and literary topics. Spanish films will be used to support coursework. Students will compare and contrast the themes of the films to those encountered in the short stories we study during the school year. This student-centered course challenges each student to think in another language and to grow in understanding of other times and cultures. Spanish V prepares students to pursue the study of Spanish literature and language at the college level.

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE

Full-credit, graded course

- Open to Forms XI and XII
- Prerequisites: Successful completion of Spanish IV with a grade of A- or better; a consistently strong work ethic and exceptional talent in listening, reading, speaking, or writing; departmental signature required.
- Full year, 1 credit
- A final graded assessment is required; taken during an

academic day in April, it will count as a CSG Semester 2 examination or a major portion of the student's semester grade.

This course challenges students to develop a high level of fluency in spoken language, to acquire a command of vocabulary and language structure similar to that of a native speaker, and to understand complex literary and non-literary prose written by Spanish and Latin American authors. Class discussion will be conducted entirely in Spanish. This student-centered course also challenges each participant to think in another language and to grow in understanding of other times and cultures. This college-level course prepares students for the Advanced Placement Spanish Language examination. Some of the class time will be spent discussing the format of the test, its scoring, and successful test-taking strategies. Students will work on numerous practice exercises from each section of the test in order to improve their skills and to become as familiar and comfortable with the test as possible. All students enrolled in this course are required to take the AP Spanish Language examination.

ADVANCED READINGS IN SPANISH

Full-credit, graded course

- Open to Form XII
- Prerequisites: Successful completion of AP Spanish Language and Culture; a consistently strong work ethic and exceptional talent in listening, reading, speaking, and writing; departmental signature required.
- Full year, 1 credit
- A final graded assessment is required; taken during an

academic day in April, it will count as a CSG Semester 2 examination or a major portion of the student's semester grade.

This course is designed to accommodate our students who have completed all possible Spanish courses at CSG up to and including AP Spanish Language and Culture. The focus of this course will be an in-depth survey of classic Spanish and/or Latin American works of literature including novels, plays, short stories and essays. Additional readings and projects may center on Ibero-American/Transatlantic studies surrounding culture, history, art, politics and media. Topics may include the Spanish Civil War, the Post War, Latin American History from Pre-Colombian times to present day, the role of the dictator in Latin America, the causes and consequences of the Mexican Revolution, among other possibilities.

This course is taught entirely in Spanish and all submitted work is in Spanish. Grading is based on participation, completion of reading selections, oral and written quizzes, submission of critical analyses, and oral project presentations.

Notes

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Columbus School for Girls
Upper School Course Catalog 2021-2022
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