Everything we do is curriculum.

FOXCROFT SCHOOL MISSION STATEMENT
To help every girl explore her unique voice and to develop the skills, confidence, and courage to share it with the world.

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REQUIREMENTS FOR GRADUATION

The minimum requirement for graduation from Foxcroft School is the successful completion of 18 academic units (credits) plus a unit of physical education each year a student is at Foxcroft. A unit is the equivalent of a single full-year course. The Foxcroft school year is divided into two semesters; courses of one semester's length receive one-half unit. The normal program consists of five academic units per year. In exceptional cases and with permission of the Assistant Head of School for Academics, a student may carry a four-course or six-course load.

DISTRIBUTION AND COURSE REQUIREMENTS

**English**: 4 units: one unit to be taken each year. In addition, international students who are non-native speakers of English are required to satisfactorily complete Foxcroft's English proficiency test before enrolling in mainstream English and History courses.

**History**: 3 units: World Cultures for freshmen,* U.S. or AP U.S. History for sophomores, and World or AP World History

**Mathematics**: 3 units: the Math core curriculum includes Algebra I, Geometry, and Algebra II. Three units of credit are granted for demonstrating competency in these areas, but the number of actual semesters of study may vary.

**Science**: 3 units: Physics or Physics M for freshmen,* Biology, and 1 additional unit for a total of 3 units

**World Languages**: 3 units: consecutive units of any one world language

**Fine Arts**: 1.5 units: to be earned in Visual Arts, Music, or Performing Arts

**Wellness/Digital Literacy/Ethics**: .5 units; required for freshmen*

**Physical Education**: 3 trimesters each year at Foxcroft

**Other**: Successful completion of Wintermission term each year at Foxcroft

* These requirements may be adjusted for students who do not attend Foxcroft during their freshman or sophomore year.
ADVANCED PLACEMENT COURSES
Foxcroft participates in the College Board’s Advanced Placement program. This program, begun in 1955, offers a college-level curriculum, taught at the high school level, to motivated high school students throughout the U.S.

These accelerated courses have workloads that are both qualitatively and quantitatively heavier than standard courses in their disciplines. As such, permission from the appropriate department and completion of prerequisite courses are required for enrollment in all AP classes. Departments base their enrollment decisions on previous years’ work in their subject area, writing samples, and overall suitability for the Advanced Placement curriculum. Completion of required summer study is essential for many AP classes. Students who fail to meet their prerequisites and/or their summer study requirements may not enroll in these courses. All students enrolled in Advanced Placement courses sit for the AP examinations in May.

Note: Foxcroft considers two AP courses to be a heavy commitment, and permission of the Assistant Head of School for Academics is required to take more than two AP courses at one time. Approval from the Assistant Head of School for Academics is required prior to enrollment in any AP course.

ACADEMIC CONCENTRATIONS
Academic Concentrations will allow a student to focus her studies in one of several specific areas, above and beyond the requirements for graduation, and to learn outside of the traditional classroom experience.

A student may apply to participate in the Academic Concentrations program in the spring of her first year at Foxcroft (usually freshman year), and eligibility is reviewed annually. In some instances, a student who enters Foxcroft after her freshman year may be eligible to transfer courses, internships, and community service from another school in order to meet the requirements; final approval for transfer credits rests with the department chair and Assistant Head of School for Academics.

To be eligible, a student must:
- Have a proven record of motivation and achievement
- Demonstrate competency in the subject of her chosen Concentration

Requirements to earn the Academic Concentration diploma designation vary from discipline to discipline but generally include the following:
- Rigorous coursework at a high level of achievement
- Internships each year that a student is enrolled
- Annual commitment to community service in the concentration field
- Independent study and/or a capstone project

EXCEPTIONAL PROFICIENCY PROGRAM
Developing an exceptional talent takes concentrated focus, discipline, and time — lots and lots of time. Foxcroft’s Exceptional Proficiency (EP) Program enables a student with demonstrated talent and passion to spend time away from campus to train, compete, and pursue her personal dream, while receiving the academic support to fulfill Foxcroft’s educational standards.

Students who possess exceptional skills and abilities and who are working with a master teacher or professional trainer may submit a request to the EP Program Committee and, if approved, miss some school obligations in order to pursue their chosen discipline. Participation is contingent upon a student being, and remaining, in good academic standing.

SUMMER STUDY FOR CREDIT
Students who are interested in taking summer classes, to move ahead in a course sequence at Foxcroft or to retake a course needed for graduation credit, need to speak to the Assistant Head of School for Academics and
complete a special form before the summer. All work for the course, including exams, must be completed before the first day of class in the fall. Students taking a Math course to move ahead in the course sequence must pass the Foxcroft Math placement test before the first day of classes in order to move to the next level.

If a student chooses to pursue summer work to move ahead in the course sequence and does not complete the class for any reason, she will need to take that course at Foxcroft the next year. Students who complete summer courses must request that transcripts be sent to Foxcroft to become part of the student’s transcript package. The entire transcript package will be sent to colleges as part of the application process. The grades from summer work will not be calculated into a student’s Foxcroft grade point average.

ONE SCHOOLHOUSE

Foxcroft is a charter affiliate member of One Schoolhouse, a consortium of schools dedicated to creating the best online courses for girls. With the approval of the Assistant Head of School for Academics and appropriate department chair, a student may take a One Schoolhouse course for credit as an elective during the school year or during the summer. The One Schoolhouse course catalog can be found at www.oneschoolhouse.org.

ACADEMIC SUPPORT

Foxcroft strives to meet the individual learning needs of all students. If a student does encounter academic difficulty, Foxcroft provides a variety of means of support, including the Learning Center and the STEM Lab. The Learning Center is staffed by a full-time Director and offers a range of services, including help with time management, study strategies, and organizational skills. Students may request or may be assigned to work in the Learning Center. The STEM Lab is staffed by members of the STEM Department. A student seeking extra support in Mathematics or Science may schedule an appointment, or she may be referred by her teachers. The goal for all academic support at Foxcroft is for students to take increasing responsibility for their own learning, and to become independent, lifelong learners.

WINTERMISSION

Wintermission is a weeklong term in February during which students take one or two intensive courses or participate in an internship. These courses encourage students and teachers to examine a subject in great depth, and provide opportunities for off-campus travel and service. Students must successfully complete Wintermission term each year they are at Foxcroft. Courses and grades will appear on students’ transcripts.
LITERATURE & EXPOSITORY WRITING
Required for Freshmen, Full Year, 1 Credit

What is universal about the human condition? This course explores myths and archetypes that provide basic truths about our identities, aspirations, and sense of place as we examine the archetypal characters as well as thematic and symbolic motifs that mark the hero's journey in literature. During the fall semester, readings in mythology and short fiction allow more time to investigate classical features of literature and tools of literary analysis. Concurrently, students engage in an intensive study of expository writing skills that begins with the review of key grammatical concepts, development of the writer's vocabulary and voice, and practice with artful sentence-writing techniques. Short compositions emphasize paragraph control and development with topic sentences, supporting evidence, and analytical commentary.

In the spring semester, our studies of genres and archetypes continue as students examine larger works of literature, including Shakespearean drama, during which the course focuses on the cohesive development of an analytical thesis in the expository essay. Throughout the year, students also learn and apply research skills in collaborative multimedia projects and enjoy numerous opportunities to compose creative and personal reflection pieces that complement their studies of literature and expository writing.

AMERICAN LITERATURE
Required for Sophomores, Full Year, 1 Credit

This course explores the notion of an "American" identity as expressed through America's literature from independence to present day. The course will investigate oftentimes conflicting perspectives concerning the American ethos of self-reliance and the country's democratic ideals. We analyze a variety of texts, including poetry, short fiction, novels, personal narratives, drama, and nonfiction. Students engage in a variety of projects, including narrative essays, close-reading analyses of poetry and prose, multimedia presentations, and timed writing assignments. The year culminates in an argumentative research paper in which students synthesize contemporary sources, based on MLA guidelines, to support their persuasive contentions. Students also gain greater rhetoric fluency through regular review and practice of language, syntax, and punctuation concepts in persuasive and expository writing.

MODERN WORLD LITERATURE
Required for Juniors not enrolled in AP English, Full Year, 1 Credit

This course spans the literature and philosophy of the early modern period of the Renaissance through contemporary currents in world literature and letters. In the spirit of shared inquiry, students will trace the development of modern Western thought and its impact, both positive and negative, upon the cultures and peoples that it has come in contact with. We will also examine the development of literature as a whole, focusing on a variety of genres, including poetry, drama, fiction, and nonfiction. Just as students build upon the analytical thinking and research skills they have acquired, so too will they explore their sense of self, using their voices in multimedia presentations, narrative essays, creative writing, and public speaking. Writing assignments include a research paper in which students synthesize and integrate literary criticism to support their critical inferences according to MLA standards. Finally, students will develop an effective prose style by varying their language, syntax, and voice to reflect the rhetorical situation.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION
Full Year, 1 Credit

Prerequisite: Nomination by a member of the Department based on exceptional performance in previous English courses and a favorable review of an AP writing sample

What is rhetoric? The AP English Language and Composition course seeks to answer that question by examining the crucial relationship between form
and content in the pages of literature, history, and culture. The principal objective of this course is for students to become engaging writers for a variety of audiences and purposes. As the AP Exam uses non-fiction passages in both its critical reading and writing sections, students examine essays, speeches, and historical documents to complement readings in literature. The course also includes a comprehensive introduction to classical rhetoric, focusing on speaker, audience, rhetorical appeals, and rhetorical schemes and tropes. During the year, students compose a variety of expository, narrative, and argumentative papers, focusing on rhetorical analysis in close reading essays. The AP Writing Rubric is also used to assess numerous timed compositions. In May, students sit for the AP English Language and Composition Exam.

**ADVANCED PLACEMENT ENGLISH LITERATURE**
Full Year, 1 Credit
Prerequisite: Nomination by a member of the Department based on exceptional performance in previous English courses and a favorable review of an AP writing sample

This accelerated course is for seniors who have mastered basic language and literary skills, and seek the intellectual challenge and pleasure of exploring significant works of literature in considerable depth. This course involves intensive study of a variety of literary genres — poetry, fiction, and drama — and helps students prepare for the Advanced Placement Examination in English Literature.

**ADVANCED ENGLISH SKILLS**
Full Year, 1 English Credit

This course aims to help students refine their grammar and composition skills as well as gain an understanding of U.S. academic expectations. Students will learn to develop logical and organized paragraphs, compose academic essays according to the patterns of academic writing, and learn core research skills such as MLA formatting. Additionally, a wide variety of grammar points, sentence structure, and vocabulary are covered to enhance accuracy in students’ written and oral expression.

**English Electives**

Elective courses are open primarily to seniors. Those who are not in AP Language or AP Literature must choose one English elective each semester. Sophomores and juniors can take electives with permission from the department. Offerings vary from year to year.

**THE AMERICAN SOUTH: A GLOBAL PERSPECTIVE**
Fall Semester, 1/2 Credit

The Civil War and the legacy of chattel slavery loom large in Southern literature, but when we focus on this history exclusively, what demographic and cultural changes to the U.S. South do we overlook? This course puts literature of the U.S. South from the early 20th century to the present in conversation with literature of the Caribbean and Central and South America. Students will examine their own ideas about the South as we examine both the history of the South in the American imagination and perceptions of the American South from
outside the U.S. As the writers and characters we study express themselves in myriad ways, students will explore their own unique voices through traditional literary essays, interdisciplinary research, and multimedia projects and presentations. Authors might include Hurston, Faulkner, Borges, Marquez, Wright, Walcott, Danticat, and Ward.

**CREATIVE WRITING**  
Spring Semester, 1/2 Credit  
This one-semester elective invites students to try their hand at original writing in a variety of genres. Students will build their skills with the fundamentals of language as they experiment with poetry, fiction, and creative nonfiction. Students will learn to revise their work and provide meaningful critique to others. We will also explore the writing process, develop good writing habits, and share our work with others. Students will assemble a digital portfolio of their work and have the opportunity to create visual and tangible manifestations of their work in the Innovation Lab.

**LITERARY NONFICTION**  
Fall Semester, 1/2 Credit  
“A thing may happen and be a total lie; another thing may not happen and be truer than the truth.”  
— Tim O’Brien, *The Things They Carried*

This one-semester senior elective explores the boundaries between fact and fiction as students read major works of creative nonfiction. Students will look at ways authors tell meaningful stories based on real events, and in the process create a framework for comparing “facts” to “truth.” True crime works such as Capote’s *In Cold Blood* or Berendt’s *Midnight in the Garden of Good and Evil* will prompt analyses of an author’s sometimes ambiguous personal relationship to the subject. Our study of memoirs such as Walls’ *The Glass Castle* will have students reflecting on how they understand their own stories. Finally, students will read “fictional” accounts of war stories as they investigate the ways fiction can help authors approach real trauma. Works may include Eggers’ *What is the What*, O’Brien’s *The Things They Carried*, and Vonnegut’s *Slaughterhouse-Five*. Students will complete a research paper exploring the ways a work of creative nonfiction relates to the events it describes.

**UTOPIAN AND DYSTOPIAN FICTION**  
Spring Semester, 1/2 Credit  
Students in this one-semester elective will study literature of perfect worlds and worlds gone wrong. While reading classic and popular prose, watching films, and listening to audio fiction, students will examine contemporary political and social structures and the potential benefit and harm of developments in science and technology. Short analytical papers will hone literary critical skills, and creative work will urge students to consider the future of human life on earth and beyond. Possible authors include More, Wells, Huxley, Orwell, Skinner, LeGuin, Butler, Atwood, Bacigalupi, and Whitehead.

**AUSTEN AND THE BRONTËS: THE WOMAN’S PEN**  
Fall Semester, 1/2 Credit  
While the novels of Jane Austen and the Brontës reflect distinct historical environments and literary genres, they have much in common, for these novelists were the founding sisters of a particular line of feminine literary influence. Like Austen, the Brontës devoted many of their stories to exploring the societal and gender constraints that have kept the woman in her place. Thus, it is no accident that their unforgettable novels have attracted generations of readers and led to a Hollywood-inspired renewal of interest in their fiction today. This course traces their enduring legacy, considering such topics as social satire in Austen’s novel of manners and the influence of the Gothic in the Victorian fiction of the Brontës. In addition to close readings of some of their most famous novels, students consider the critical interest in these works by writers such as Virginia Woolf and feminist critics since the 1970s. *Not offered in 2018-19.*

**CONTEMPORARY WORLD FICTION**  
Fall Semester, 1/2 Credit  
What will be the masterpieces of tomorrow? What constitutes “classic” literature? This course looks at the “great” fiction of today. Are there recurring themes in today’s contemporary fiction? What does the world look like to today’s writers? What connects us? Are there any generalizations we can make about our era in fiction? *Not offered in 2018-19.*
HEMINGWAY, FITZGERALD, AND FAULKNER
Fall Semester, 1/2 Credit
This elective course explores the work of three great modern American writers. Students in this elective read at least one novel and multiple short stories from each of these authors. A major paper engaging secondary sources is required, as is a lengthy oral presentation in preparation. Vocabulary, short papers, grammar, and some independent work are also components of the course. Not offered in 2018-19.

SHAKESPEARE AND PERFORMANCE
Fall Semester, 1/2 Credit
This course focuses on the texts of several of Shakespeare's plays as blueprints for performance, taking the dramas off the page and moving them to the stage. For each play that they study, students will perform selected scenes to appreciate how acting and staging decisions reflect their critical interpretations of the play's action, characters, and themes. Students read a variety of dramas, focusing on Shakespeare's comedies with their savvy female protagonists, but the course also includes a tragedy and a history play. To complement their close readings of formal elements such as genre, imagery, and blank verse in these works, students will explore the plays as responses to the cultural influences of Renaissance England, examine more modern literary criticism, and critique film and stage productions of selected dramas. Not offered in 2018-19.
WORLD CULTURES
Required for Freshmen, Full Year, 1 Credit
This course emphasizes a general study of the science of geography and area studies. Although area studies have a cultural focus, the general history of each region is examined in order to determine the roots of local culture. A regular current events class adds another dimension of relevance to course material. Students become aware of the geographic and cultural differences among the various regions of the world, which provides a basic structure for study of history.

UNITED STATES HISTORY
U.S. History or AP U.S. History Required for Sophomores, Full Year, 1 Credit
This thematic course is attentive to the political, economic, cultural, social, and constitutional developments by which the United States achieved independence, became a nation, evolved into a world power and, subsequently, became a superpower. Students learn how to read contemporary and past writings, take notes on reading and class discussion, make reasoned interpretations about the causes and consequences of historic events, research both primary and secondary sources, write and speak analytically, and continue to develop their research skills.

ADVANCED PLACEMENT UNITED STATES HISTORY
Full Year, 1 Credit
Prerequisite: Nomination by the Department based on exceptional performance in previous history courses
This course surveys the historical development of the U.S., focusing upon the unique character of the American people and their institutions. Particular attention is paid to trends in U.S. history, including sectionalism, isolationism, Manifest Destiny, imperialism, and the increasing role of the federal government in the affairs of the private sector. This is a challenging course, with a workload that is both qualitatively and quantitatively heavier than the standard U.S. History survey course.

MODERN WORLD HISTORY
Modern World History or AP Modern World History Required for Juniors, Full Year, 1 Credit
This year-long thematic course looks at the origins and development of our modern society. The spread of European people and ideas and the global response to this diffusion will be analyzed from multiple points of view. Areas of focus include cultural trends, particularly in art and religion; the scientific revolution and its aftermath; the birth of the modern nation-state system, including colonization, conflicts, and independence; and the industrial revolution and the origins of our current economic systems. Students will continue to develop their analytical, writing, communication, and research skills.

ADVANCED PLACEMENT WORLD HISTORY
Full Year, 1 Credit
Prerequisite: Nomination by the Department based on exceptional performance in previous history courses
This yearlong course will look at significant events, people, and developments from 8000 B.C.E. to the present. Students will make connections between historical developments in different times and different places through five themes: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. Students continue to develop their analytical, writing, communication, and research skills.

THE AMERICAN EXPERIENCE
Full Year, 1 Credit
This course provides a brief overview of American history, culture, and literature. Emphasis is placed on reading comprehension, strategies, and analysis, along with class discussion. In addition, students learn to develop an analytical approach to the study of American literature. Utilizing the tools they
are learning in Advanced English Skills, students apply their knowledge in the form of projects and presentations. To help better understand these topics, excursions to American historical points of interest in the greater Washington, D.C., area are organized to give meaning and context to these students while offering a true American Experience.

History & Social Science Electives

Elective courses are open primarily to juniors and seniors who wish to enrich or continue their study of history and the social sciences. Offerings vary from year to year.

ADVANCED PLACEMENT ECONOMICS
Full Year, 1 Credit
Prerequisite: Nomination by the Department based on exceptional performance in previous history courses

A yearlong elective, AP Economics provides a survey of basic economic principles. The first semester focuses on Microeconomics, and students study supply and demand, elasticity, the theory of the firm and market structure, monopolies, market factors, the government’s role, and taxation. In the second semester, the class looks at Macroeconomics and focuses on economic principles that apply to the economy as a whole, such as Gross Domestic Product, inflation, unemployment, the role of government in the economy, and international trade. Current events related to the subject are discussed. Students sit for both the AP Microeconomics and the AP Macroeconomics exams in the spring.

ADVANCED PLACEMENT HUMAN GEOGRAPHY WITH GEOGRAPHIC INFORMATION SYSTEMS
Full Year, 1 Credit
Prerequisite: Nomination by the Department based on exceptional performance in previous history courses

The field of human geography studies the activities of human beings on the earth’s surface. The first semester of this course introduces the analytical tools used by geographers to study patterns and processes; students learn to look at the world with a spatial perspective. In addition, students become proficient in Geographic Information Systems (GIS), the software that geographers use to capture, store, display, and analyze geographic data. The second semester focuses on the application of geoanalytical skills through projects based in the local community, working with both people and technology to solve real-world problems.

AMERICAN GOVERNMENT AND POLITICS
One Semester, 1/2 Credit

This introductory course in Government examines the principles of United States government and the responsibilities of its citizens. The course covers the development of representative and constitutional government and includes a detailed review of the executive, legislative, and judicial branches of government as well as the role of the political parties, various interest groups, and the bureaucracy in the American political system. Students gain an in-depth understanding of the Constitution and how it is applied. Students actively follow national politics and have opportunities to debate current political issues. When applicable, the class covers presidential elections. Throughout the semester, students propose and debate their own ideas on government and national policy.

CONSTITUTIONAL LAW, RIGHTS, AND PROTECTIONS
One Semester, 1/2 Credit

This semester-long elective explores the development of American Constitutional law and the rights and protections of its citizens. Students will take an in-depth look at the Constitution and how it has been interpreted by the Supreme Court throughout the years. From Marbury v. Madison establishing the principle of judicial review, to Brown v. Board of Education, Topeka defining equal protection under the law, to Citizen United v. Federal Election Commission’s ruling on political speech, students will learn the Court’s impact on Constitutional rights, protections, and public policy. In addition, students will follow cases on the current Supreme Court docket and will conduct mock court sessions. Throughout the semester, students will continue to develop their analytical, writing, communication, and research skills.
FREEDOM IN AMERICA: ON THE ROAD TO EQUALITY
One Semester, 1/2 Credit
This one-semester elective is designed as a research-based course in which students explore some of the groups who have fought oppression in America. The primary groups of focus include African Americans, Native Americans, Muslim Americans (particularly after 9/11), Japanese Americans during World War II, women, and Latinos. Students learn how each of these groups struggled or is struggling to gain its share of America's freedom. Lecture, class discussion, library research, fiction and nonfiction literature, film, and analytical writing are all tools for teaching the material. Each student chooses a group on which to conduct additional study in order to submit a substantial research paper at the end of the term.

WOMEN'S MOVEMENTS: A GLOBAL PERSPECTIVE
One Semester, 1/2 Credit
This course will examine women's movements of the 20th and 21st century from a global perspective. Students will learn about women's campaigns in Asia, Latin America, and Africa, as well as the United States and Europe. The course will be historical and comparative, addressing issues of individual rights, suffrage, professional and educational opportunities, reproductive rights, and more. The semester will culminate in each student researching an issue of women's rights that exists in the world today. Throughout the semester, students will continue to develop their analytical, writing, communication, and research skills.

INTERNATIONAL RELATIONS
One Semester, 1/2 Credit
As the world grows smaller in the 21st century, the way that different countries interact with and relate to each other becomes increasingly important. This course is a survey of international relations with an emphasis on the role that the United States plays in the world. The class investigates the relationship between Western democracies and second- and third-world countries. Students are introduced to the concepts of nationalism, imperialism, and the balance of power in the world. Teaching methods include current events presentations, lectures, group discussions, films, debates, and a research project. Not offered in 2018-19.

WORLD RELIGIONS
One Semester, 1/2 Credit
Students in World Religions begin their study by defining religion and identifying its component parts. Then, students examine some major religions, such as Buddhism, Christianity, Taoism, Islam, and Judaism. They also analyze native religions of Africa and the Americas. The latter part of the course focuses on current religious issues and movements, drawing on recent newspaper and magazine articles, and the academic press. Not offered in 2018-19.
STEM LAB
The STEM Lab is staffed by members of the STEM Department and is open to students who need extra help with their math or science courses. Students are provided with resources and tools that reinforce the concepts that are introduced in regularly scheduled mathematics courses.

ALGEBRA I
Required, Full Year, 1 Credit
This course begins with a review of computational skills and operations followed by techniques for solving and graphing linear equations and inequalities. Methods to calculate slope, x- and y-intercepts, and forms for equations of lines are covered, as are methods for solving applications involving one and two unknowns. Other topics include rules of exponents, scientific notation, polynomial operations and factoring. Solutions to quadratic equations are found using graphing, completing the square, and the quadratic formula.

GEOMETRY
Required, Full Year, 1 Credit
This course gives a foundation in Euclidean geometry using the inquiry and proofs approach. Topics include inductive/ deductive reasoning, logic, polygons, congruency, circles, right triangles, parallelism, direct proofs, areas, and volumes.

ALGEBRA II
Required, Full Year, 1 Credit
Prerequisite: Algebra I
This course continues the exploration of algebraic functions using tables, graphs, symbolic manipulation, and word problems. Students hone problem-solving skills through group discussions and individual work. The study of polynomial functions is extended via applications involving linear functions and systems, and quadratic functions. Exponential and rational functions are also covered.

ALGEBRA II AND TRIGONOMETRY
Full Year, 1 Credit
Prerequisite: Algebra I and permission of the Department
The focus of this course is to prepare the student for Precalculus or Math Analysis and then Calculus at the high school or college level. All the topics from Algebra II are covered with an emphasis on analytical thinking. Modeling real-world applications is a major component of this class. It also includes rational function, logarithmic function, and the trigonometry topics of graphing and identities.

PRECALCULUS
Full Year, 1 Credit
Prerequisite: Department permission, based on exceptional performance in Algebra II or Algebra II with Trigonometry
This course prepares students for the rigors of Calculus. Techniques are developed to solve equations involving polynomials, radicals, and rational expressions. Polynomial, inverse, rational, exponential, logarithmic, and trigonometric functions are studied and their applications are explored algebraically and graphically.

MATH ANALYSIS
Full Year, 1 Credit
Prerequisite: Algebra II and Trigonometry
Math Analysis is an accelerated Precalculus course. All Precalculus topics are addressed and completed by mid-February. Students then study differential calculus for the rest of the spring semester. Students who successfully complete this course are eligible for enrollment in Advanced Placement Calculus (BC) in the following year.

CALCULUS
Full Year, 1 Credit
Prerequisite: Minimum grade of B- in Precalculus and permission of the Department
This is the beginning course of differential calculus in a single variable. It offers an alternative to the
more rigorous course of Advanced Placement Calculus (AB). Topics covered include limits, continuity, definition of the derivative, derivative at a point, derivative of a function, second derivative test, curve sketching, and applications of the derivative. If time allows, Riemann sums and the fundamental theorem of calculus are introduced.

**ADVANCED PLACEMENT CALCULUS (AB)**
Full Year, 1 Credit
*Prerequisite: Permission of the Department*

This is a full-year course equivalent to a first semester of college calculus. Topics covered include limits, continuity, definition of the derivative, derivative at a point, derivative of a function, second derivative, applications of derivatives, computation of derivatives, Riemann sums, applications of integrals, fundamental theorem of calculus, techniques of anti-differentiation, applications of anti-differentiation, and calculus of separable differential equations.

**ADVANCED PLACEMENT CALCULUS (BC)**
Full Year, 1 Credit
*Prerequisite: AP Calculus (AB)*

Equivalent to a second semester of college calculus, this course includes further studies of all AP Calculus (AB) topics, calculus of parametric functions, polar functions, vector functions, L'Hopital's Rule, separable differential equations, advanced integration techniques, series convergence tests, interval of convergence of power series, Taylor series, and Lagrange error bound for Taylor series.

**MULTIVARIABLE CALCULUS**
Full Year, 1 Credit
*Prerequisite: AP Calculus (BC)*

This is a first course in vector analysis and the differential and integral calculus of functions of many variables. Topics include vector analysis in n-space, differentiation of real and vector valued functions of many variables, the chain rule, extrema of real valued functions, constrained extrema and Lagrange multipliers, vector fields in 3-space, divergence and curl of a vector field, conservative fields, double and triple integrals, change of variables in multiple integrals, path and surface integrals, and the theorems of Green, Gauss, and Stokes. This course is offered based on student interest and enrollment.

**POST-AP CALCULUS SEMINAR: THE GREAT THEOREMS**
Full Year, 1 Credit
*Prerequisite: AP Calculus (AB & BC)*

This course offers a college level treatment of rigorous mathematical proof. Classes are extremely student-centered and conducted in true seminar fashion. Students master the major types of mathematical proofs including direct proof, proof by contradiction, existence proofs, uniqueness proofs, and proof by mathematical induction. They do so by studying, preparing, and presenting proofs, in complete detail, for several cornerstone theorems of mathematics. The course also has historical and biographical components. The Great Theorems studied include: Hippocrates’ Quadrature of the Lune, Euclid’s Proofs of the Pythagorean Theorem and the Infinitude of Primes, Archimedes’ Determination of Circular Area, Heron’s Formula for Triangular Area, Cardano’s Solution of the Cubic and the Origin of Complex Numbers, Newton’s Approximation of Pi, Bernoulli and the Divergence of the Harmonic Series, Euler’s Summation of the Reciprocals of the Perfect Squares and Refutation of Fermat’s Conjecture, and Cantor’s Proof of the Non-Denumerability of the Continuum. Not offered in 2018-19.

**Mathematics Electives**

Elective courses are open primarily to juniors and seniors who wish to enrich or continue their study of the subject.

**DISCRETE MATHEMATICS**
One Semester, 1/2 Credit
*Prerequisite: Algebra II (enrollment may be concurrent)*

This course provides students with the opportunity to interpret data from models and real-life situations using graph theory, fractal geometry, chaos theory, and game theory. This course includes a number of interdisciplinary projects and use of computers.

**ADVANCED FINANCIAL ALGEBRA: BUSINESS**
One Semester, 1/2 Credit
*Prerequisite: Algebra II (enrollment may be concurrent)*

This is an application-based course that incorporates Algebra I, Algebra II, and Geometry topics, and makes extensive use of spreadsheet
applications and graphing to explore financial applications. Topics covered include the stock market, modeling a business, banking services, consumer credit, and automobile ownership. Students manage personal financial accounts, learn the benefits and risks of various investment strategies, understand credit card fees and interest, balance a checkbook, and more. They are encouraged to be actively applying mathematical ideas to their everyday lives.

**ADVANCED PLACEMENT STATISTICS**

Full Year, 1 Credit

This is a full-year course equivalent to a first semester of college statistics. Students are introduced to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students also learn four conceptual themes:

1) Exploring Data: observing patterns and departures from patterns;
2) Planning a Study: deciding what and how to measure;
3) Anticipating Patterns: producing models using probability theory and simulation; and
4) Statistical Inference: confirming models.

*Not offered in 2018-19.*

**ADVANCED FINANCIAL ALGEBRA: PERSONAL**

One Semester, 1/2 Credit

Prerequisite: Algebra II (enrollment may be concurrent)

This is an application-based course that incorporates Algebra I, Algebra II, and Geometry topics, and makes extensive use of spreadsheet applications and graphing to explore various financial topics. Students research careers and salaries, then use that information to explore employment basics, including pay periods, hourly rates, employee benefits, and Social Security, and Medicare. Other topics include income taxes, financing a home, preparing a budget, and planning for retirement. Students apply their proposed career salary to analyze the related financial topics. *Not offered in 2018-19.*

**PROBABILITY AND STATISTICS**

One Semester, 1/2 Credit

Prerequisite: Algebra II (enrollment may be concurrent)

Probability and Statistics provides students with the opportunity to interpret data from models and real-life situations. The emphasis is on statistical procedures and the variety of their applications in society. Sampling techniques, displaying data, and statistical inference are discussed. Other topics covered include probability, mathematical expectation, and game theory. *Not offered in 2018-19.*
**PHYSICS**  
Physics or Physics M Required for Freshmen  
Full Year, 1 Credit  
This course is a conceptual introduction to physics and Newtonian mechanics. In particular, it examines the nature of scientific inquiry, inertia, linear motion, Newton's second and third laws, momentum, energy, rotation, gravity, and projectile and satellite motion. Students study momentum, energy, rotation, vibrations, and waves, sound, musical sound, heat, and light. Labs reveal the basic underlying physical relationships involved in these concepts and give students hands-on experience in their application. The focus of the course is on the fundamental concepts of physics.

**PHYSICS M**  
Physics or Physics M Required for Freshmen  
Full Year, 1 Credit  
*Prerequisite: Must have successfully completed Algebra I, and be enrolled in Geometry or higher*  
This course is a complete introduction to physics and Newtonian mechanics. It examines the nature of scientific inquiry, inertia, linear motion, Newton's Second Law, Newton's Third Law, momentum, energy, rotation, gravity, and projectile and satellite motion. Labs reveal the underlying physical relationships involved in these concepts and give students hands-on experience in their application. The course focuses on mathematically applying fundamental physics concepts.

**ADVANCED PLACEMENT PHYSICS I**  
Full Year, 1 Credit  
*Prerequisite: Algebra II, and permission of the Department*  
This course is the equivalent of the introductory, algebra-based college course. It prepares students for the AP Exam by fostering deeper understanding through student-centered, inquiry-based instruction. Students explore principles of Newtonian mechanics including rotational motion, work, energy, power, mechanical waves, sound, and introductory, simple circuits. Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. These investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where the teacher directs and monitors their progress.

**BIOLOGY**  
Required; Full Year, 1 Credit  
In Biology, students actively investigate the difference in structure and properties of lipids, nucleic acids, proteins, and carbohydrates. Knowledge of these molecules allows for a detailed study of cellular respiration, the digestive system, and the components of all living cells. While examining the cell, students learn about cellular transport, osmosis, and diffusion. Other concepts covered include the cell cycle, mitosis, meiosis, sexual reproduction, and genetics, including the Central Dogma.

**ADVANCED PLACEMENT BIOLOGY**  
Full Year, 1 Credit  
*Prerequisite: Biology, Chemistry, and permission of the Department*  
This course is the equivalent of a college introductory biology course. It includes an extensive study of molecules and cells, genetics and evolution, anatomy and physiology of animal and plant life, and organism and population dynamics. The course provides students with the conceptual framework, factual knowledge, and analytical skills required to understand the rapidly changing science of biology.
CHEMISTRY
Full Year, 1 Credit
Chemistry builds from the most fundamental building blocks of matter, subatomic particles, and atoms. The course includes the nature of the atom, early models of the atom and discovery of subatomic particles, an understanding of isotopes and radioactivity, an introduction to electron structures and ionic bonding, information on covalent bonding, Lewis structures, organic functional groups, and three-dimensional modeling of molecules. Additional concepts covered include gas laws and the behavior of fluids, the law of conservation of mass, balancing equations, chemical reactions, and acid base systems and pH.

PRE-AP CHEMISTRY
Full Year, 1 Credit
Prerequisite: Successfully completion of Algebra II, or concurrent enrollment in Algebra II with Trigonometry
This course is intended for students who are interested in potentially taking on the challenge of Advanced Placement Chemistry. It covers all the topics found in Chemistry, as well as the laws of thermodynamics, free energy, enthalpy, entropy, equilibrium, and LeChatlier’s principle.

ADVANCED PLACEMENT CHEMISTRY
Full Year, 1 Credit
Prerequisites: Chemistry and Pre-Calculus or concurrent enrollment in a more advanced math course, and permission of the Department
This college-level chemistry course focuses on topics such as: thermodynamics, thermochemistry, the quantum atom, physical behavior of gases, states and structure of matter, chemical equilibrium and kinetics, and various chemical reactions. Laboratories are based on the recommendations of the College Board. Emphasis is given to developing increased competency in solving chemical calculations and problems. AP Chemistry provides second-year chemistry students an opportunity to prepare for the AP Chemistry Exam in May.

Science Electives
Elective courses are open to sophomores, juniors, and seniors who wish to enrich or continue their study of science. Offerings vary based on student interest.

ADVANCED PLACEMENT COMPUTER SCIENCE A
Full Year, 1 Credit
Prerequisite: Algebra II, and permission of the Department
AP Computer Science A is the equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE
Full Year, 1 Credit
Prerequisites: Biology, and permission of the Department
This course gives students an overview of the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems; and to evaluate the relative risks and possible solutions to resolve them. It also prepares students to sit for the AP Environmental Science Exam in May. The course draws upon ideas from the life sciences, physical sciences, history, political science, and anthropology to explore concepts in ecology, atmospheric science, hydrology, and geochemistry. The course will have a significant lab and field component.
ANIMAL SCIENCE
One Semester, 1/2 Credit
Prerequisite: Biology
This one-semester elective is an introduction to Animal Science for students who are interested in the applications of science and technology to the care and management of animals. The course examines the anatomy and physiology of various animals ranging from domestic pets to working livestock. Students will also learn about genetics, nutrition, and how to identify and treat common animal injuries and diseases. Throughout the course, students will gain hands-on experience in the basic care and management of domestic animals.

APPLICATIONS OF NEUROSCIENCE
Fall/Spring Semesters, 1/2 Credit
Prerequisite: Biology
This one-semester elective course is about the arts, their effects on the brain, and how the ever-expanding body of research on this topic can be applied to real life. This course is aimed at students interested in exploring the intersection of several fields: primarily the arts (music, dance, theater, film, and visual arts), neuroscience, and psychology. It explores topics to include the basics of music, acoustics, dance, theater, film, visual arts, the nervous system, and research methods commonly employed in all three major fields. Then, the course explores how the arts relate to the motor system, development, language, emotion, and memory, how neuroplasticity can be induced by artistic study, the neuroscience of improvisation, the artistic applications of neuroscientific research, and the application of current research in therapeutic practices and education.

ASTRONOMY AND THE HISTORY OF COSMOLOGY
One Semester, 1/2 Credit
This course, offered jointly by the STEM and History departments, takes an historical approach to presenting our current understanding of the universe. Students study the development of cosmology from early Mediterranean civilizations and the Greeks to the Scientific Revolution and the present day. The classroom experience is supplemented by weekly nighttime visits to the Read Observatory as weather permits. We cover the birth of consciousness, the Ionians, Pythagoras of Samos, Philolaus and the central fire, Herakleides and the sun-centered universe, Aristarchus (the Greek Copernicus), Plato, and Aristotle. Other topics include the rise of circular dogma, Eudoxus, Ptolemy, the Dark Ages, Copernicus, Rheticus, On the Revolutions of the Heavenly Spheres, Brahe, Kepler, the Church and the Copernican system, the impact of the telescope, Galileo’s trial, gravity, the Newtonian synthesis, and modern cosmology.

EXPLORATIONS IN ENGINEERING I
Fall Semester, 1/2 Credit
Prerequisite: Concurrent with Algebra II, or permission of the Department
This course offers a broad-spectrum introduction to engineering concepts through a hands-on, lab-based curriculum. This course is designed to be for all students, not just for those interested in a future in engineering. The course lessons, projects, and experiments encompass real world applications encountered in daily life. Students learn how math and science affect all areas of our lives.

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
Full Year, 1 Credit
Prerequisite: Algebra II, and permission of the Department
This course is the equivalent of an introductory college computing course. Students develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data, and working with large data sets to analyze, visualize, and draw conclusions from trends. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. Students also develop effective communication and collaboration skills, working individually and in groups to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. Not offered in 2018-19.
AERODYNAMICS: TAKING FLIGHT
One Semester, 1/2 Credit
Prerequisite: Algebra II (enrollment may be concurrent)
This elective will explore the fundamentals of flight, beginning with the Wright brothers’ early designs, wind tunnels, and the aerodynamics of airplane flight. We will then look at the use of unmanned aerial vehicles (drones) to explore rotary aircraft. Finally, students will learn about rocket flight and NASA’s goals for exploring our universe. This will be an active-learning course with students designing, building, and flying airplanes and rockets. Students will also learn to program drones for specific purposes and design flight missions that combine humanitarian needs with the use of technology. Not offered in 2018-19.

FORENSIC SCIENCE
One Semester, 1/2 Credit
Prerequisite: Biology
This one-semester elective makes use of techniques from biology, chemistry, physics, anthropology, psychology, and environmental science. Topics covered will be drawn from the field of forensic evidence collection and analysis, and include DNA replication and sequencing, forensic entomology, skeletal analysis, blood characterization, hair and fiber analysis, fingerprinting, soil analysis, and toxicology. Students in this lab-based course are assessed via formal lab reports, group and independent projects, periodic quizzes, and scientific analyses of popular media representations of forensic science. Not offered in 2018-19.

EPIDEMICS: SCIENTIFIC AND SOCIAL IMPACTS
One Semester, 1/2 Credit
Prerequisites: Biology and Algebra II
This semester elective focuses on incidents of widespread disease and their effect on the evolution of culture and science throughout history. Students explore the ways in which various epidemics act as agents of change and how our understanding of disease has evolved over time. This science-based interdisciplinary course covers epidemics from the Black Plague to the H1N1 virus. We address the impact of epidemics on advancements in science and mathematics, as well as the ways in which disease is interpreted in art, music, and literature. Course materials reflect collaboration among the History, STEM, English, and Art departments. Students benefit from lectures given by additional faculty members whose core competencies relate to the course. Not offered in 2018-19.

EXPLORATIONS IN ENGINEERING II
Spring Semester, 1/2 Credit
Prerequisite: Concurrent enrollment in Algebra II; Explorations in Engineering I, or permission of the Department
Explorations in Engineering II uses the skills developed in Explorations in Engineering I to pursue a team project that benefits the local community. The project requires solving engineering and technology-based problems, as well as social interaction with the community. Project topics can span a wide range; possibilities include homelessness prevention, environmental protection, or development of learning devices for children with disabilities. This course is designed to benefit students of all abilities and interests. A successful engineering team includes students with skills or interest in research, writing, presentation, social interaction, math, and science. Not offered in 2018-19.

STEM: APPLICATIONS AND TECHNOLOGY
Spring Semester, 1/2 Credit
This course introduces students to a breadth of STEM fields through projects designed to teach skills that are essential for modern college students and professionals. Students gain proficiency in several software applications to include data integration and analysis, graphing, statistical analysis, and computer-aided design. They learn to independently navigate new software products, providing a versatile skill set for use in both college and industry. Not offered in 2018-19.
FRENCH I
Full Year, 1 Credit

This course is designed for those students who have had little or no previous world language experience. The course emphasizes the skills of listening, speaking, reading, and writing in the cultural context of the Francophone world. The aim of this course is to introduce the basis of French language and culture in a full immersion setting. Classes will be conducted in French, as students will learn to explore new vocabulary and grammar concepts through observation, repetition, and practical application. At the end of this first year, the students will have a solid foundation of basic vocabulary and will be able to express ideas in the present, past, and future tenses. Students have different expectations when it comes to using a language, and this class allows each and every student to find her own pace through an extensive use of the Communicative Approach. Oral participation in class and diligent memorization of vocabulary and verbs are the keys to success in this course.

FRENCH II
Full Year, 1 Credit

This course is designed for students who have completed French I at Foxcroft, or for new students who qualify through a placement test. Students practice the idiomatic expressions that are most useful in everyday situations. While continuing to develop aural-oral skills, this course involves reading nontechnical French prose and writing simple compositions. The main objective for the course is to review and consolidate the basis of French language and culture in a full immersion classroom. Authentic documents will be used to learn and solidify additional grammatical structures within a cultural context, as well as to produce a modern use of the French language. Everyday culture will be reinforced. Connections between language and culture will be presented and, most importantly, assimilated.

FRENCH III
Full Year, 1 Credit

French III introduces advanced grammar and vocabulary related to tourism, social problems, and political issues. In this course, the emphasis on the four language skill areas in an immersion setting combines with an increased focus on reading of literary texts and formal writing. Through class discussions and short compositions, students are encouraged to hypothesize and express opinions as they develop competence and fluency.

FRENCH IV
TOPICS IN CONTEMPORARY CULTURE
Full Year, 1 Credit

In French IV, students embark on a journey into contemporary French culture while strengthening their language skills. Students study grammar and vocabulary in context and practice using French through a variety of oral and written activities. French IV gives students all the necessary linguistic tools to articulate their opinion on current events, and to have a deep understanding of French society and culture. This course will use and follow some of the same thematic units as the French AP Language and Culture course as it is especially intended for motivated students who wish to pursue French studies at the Advanced Placement or the university level. Not offered in 2018-19.

FRENCH V
TOPICS IN CONTEMPORARY CULTURE
Full Year, 1 Credit

In French V, students continue the journey into contemporary French culture while strengthening their language skills. Students study grammar and vocabulary in context and practice using French through a variety of oral and written activities. French V gives students all the necessary linguistic tools to articulate their opinion on current events, and to have a deep understanding of French society and culture. This course uses some of the same thematic units as the French AP Language and Culture course and is intended for motivated
students who wish to pursue French studies at the Advanced Placement or the college level.

**ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE**
Full Year, 1 Credit
Prerequisite: French III or IV and nomination by a member of the Department based on exceptional performance in previous language courses

This course stresses a high degree of competency in reading, listening, writing, and speaking, with the aim of advanced fluency. Course content, which includes the study of texts, film, and current affairs, reflects intellectual interests shared by students and the teacher.

**LATIN I**
Full Year, 1 Credit

Students learn basic grammar, vocabulary, and syntax as they translate stories about a Roman family in the first century A.D. The course offers an introduction to Roman history, culture, and mythology. Latin’s influence on the English language is emphasized through a study of roots.

**LATIN II**
Full Year, 1 Credit

Latin II provides an introduction to advanced grammar. Topics include the passive voice, deponent verbs, the subjunctive, indirect statements, adjectives, and purpose clauses. The study of Roman culture, history, and mythology continues, as does the study of Latin mottos and English vocabulary with Latin roots.

**LATIN III**
Full Year, 1 Credit

Latin III explores advanced grammar and vocabulary. Much of Latin III builds upon the translation skills and structures learned in Latin II, but students continue discovering the nuance at a deeper level. The cultural focus is on the Roman Empire, specifically the engineering of Rome. Students also begin an in-depth look at the primary writers and philosophers including Virgil and Julius Caesar.

**SPANISH I**
Full Year, 1 Credit

Designed for students who have had little or no previous world language experience, this course emphasizes the skills of listening, speaking, reading, and writing in the cultural context of the Spanish-speaking world. The aim of this course is to introduce the basis of Hispanic language and culture in a full immersion setting. Classes will be conducted in Spanish, as students learn to explore new vocabulary and grammar concepts through observation, repetition, and practical application. At the end of the first year, the students will have a solid foundation of basic vocabulary and be able to express ideas in the present, past, and future tenses. Students have different expectations when it comes to using a language, and this class allows each and every student to find her own pace through an extensive use of the Communicative Approach. Oral participation in class and diligent memorization of vocabulary and verbs are the key to success in this course.

**SPANISH II**
Full Year, 1 Credit

This course is designed for students who have completed Spanish I at Foxcroft, and new students who qualify through a placement test. Students practice the idiomatic expressions that are useful in everyday situations. While continuing to develop aural-oral skills, the course involves reading non-technical Spanish prose and writing simple compositions. The main objective of the course is to consolidate the basis of Hispanic language and culture in a full immersion classroom. Authentic documents will be used to learn and solidify new grammatical structures within a cultural context, as well as to reproduce a modern use of the Spanish language. Everyday culture will be reinforced, and connections between language and culture will be presented and, most importantly, assimilated.

**SPANISH III**
Full Year, 1 Credit

This course explores advanced grammar concepts while study of the four key language skill areas in an immersion setting continues. There is an increased emphasis on advanced reading and writing. In addition, through class discussion and short compositions, students are encouraged to hypothesize and express opinions as they develop competence and fluency.
SPANISH IV
Full Year, 1 Credit
Spanish IV provides students the opportunity to further improve and polish their listening, speaking, reading, and writing skills. While, in contrast to the other skills, the biggest emphasis will be placed in the speaking skills, all of them will continue to be developed. Through cultural, historical, and global contexts, a total review of the grammar will be accomplished along with an expansion of their vocabulary. This course is meant to provide the foundation and structure for an advanced Spanish college course. For that purpose, the cultural content will touch upon the six themes used in the AP Spanish and Culture course. Occasionally, the class will also use similar practice exercises as the AP course, adjusted appropriately for a non-AP class, to strengthen their language skills and prepare them to take that level, should they choose to continue with their Spanish learning.

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE
Full Year, 1 Credit
Prerequisite: Spanish III or IV and nomination by a member of the Department based on exceptional performance in previous courses
This course develops competency in reading, listening, writing, and speaking skills, with the aim of creating fluency in Spanish. Course content, which includes the study of texts, film, and current affairs, reflects intellectual interests shared by students and the teacher. Mastery of Spanish grammar is stressed.

ADVANCED PLACEMENT SPANISH LITERATURE AND CULTURE
Full Year, 1 Credit
Prerequisite: Advanced Placement Spanish Language and Culture and nomination by the Department based on exceptional performance in previous courses
The AP Spanish Literature course provides an in-depth study of the works and authors determined annually by the College Board. Students discuss and analyze prose, poetry, and drama within the cultural and historical contexts of Hispanic civilizations across the world beginning with the Middle Ages. This course is offered based on student interest and enrollment.
Visual Arts

CERAMICS I
Fall/Spring Semesters, 1/2 Credit
This course will be an introduction to clay and the properties that make this 3,000-year-old material still relevant in the art world today. Students will be exposed to both hand-building and wheel-throwing techniques. Hand-building methods include cut-away, slab, cylinder, pinch, and coil. With wheel throwing, centering, opening the wall, and pulling or thinning the wall are the basic steps that students need to master in order to create finished pieces. Emphasis will be on technique and students’ ability to perform these building methods. Decorating using glazes and other techniques will also be introduced.

CERAMICS II
Fall/Spring Semesters, 1/2 Credit
Prerequisite: Ceramics I
This course allows students to build on skills mastered in Ceramics I, to explore its possibilities as a fine art medium, and to begin to develop a personal style.

ADVANCED CERAMICS
Fall/Spring Semesters, 1/2 Credit
Prerequisite: Ceramics II
This course allows students to continue working with the skills developed during Ceramics II. The content is individualized and the instructor works closely with each student. (This course may be taken several times for credit.)

SCULPTURE I
Fall/Spring Semesters, 1/2 Credit
This course acquaints the student with the historical aspects of sculpture and explores three-dimensional design. Studio experiences include modeling, carving, and constructing sculpture using clay, plaster, stone, wire, and found objects. Not offered in 2018-19.

SCULPTURE II
Fall/Spring Semesters, 1/2 Credit
Prerequisite: Sculpture I
This course allows students to build on skills mastered in Sculpture I and explore its possibilities as a fine art medium. Not offered in 2018-19.

DIGITAL DESIGN AND FABRICATION
Fall/Spring Semesters, 1/2 Credit
This course focuses on the various tools available for digital fabrication, including 3D printers and laser cutters. Students are asked to consider the creative as well as practical applications of this technology. They learn how to go from a digital file on the computer to an actual built version of that design. Students are guided through each phase of the process, including initial modeling, preparing, and exporting, as well as revising. Focus is on determining which tools are best suited to individual designs. Once students have gained knowledge in working with these tools, they are able to select a direction for their work that aligns with their personal goals and interests.

DIGITAL GRAPHIC DESIGN AND PUBLISHING I
Fall/Spring Semesters, 1/2 Credit
This course provides an introduction to digital graphic design, offering students an opportunity to develop technological skills while enhancing their writing and artistic skills. Students use the computer as a tool for the creative expression of visual ideas and gain "hands-on" experience with desktop publishing, graphics, scanners, digital cameras, CD-ROM burners, color printing, and the use of the school-wide network to move information and for storage. Students gain proficiency with Adobe InDesign, Adobe Photoshop, and Microsoft Word. The culmination of the semester is the production of the Tally-Ho! yearbook. Students may receive technology credit or art credit for this course.
DIGITAL GRAPHIC DESIGN AND PUBLISHING II
Spring Semester, 1/2 Credit
Building on the skills learned in Digital Graphic Design and Publishing I, this course offers students an opportunity to develop technological skills while enhancing their artistic skills. Students use the computer as a tool for the creative expression of visual ideas and gain hands-on experience with desktop publishing, graphics, digital cameras, scanners, sound files, video-presentation equipment, multimedia presentation software, and the use of the school-wide network to move information and for storage. Students also gain proficiency in using Adobe Photoshop, Microsoft PowerPoint, and Microsoft Word. The culmination of the spring semester is the production of the Senior Slide Show. Students may receive technology credit or art credit.

PHOTOGRAPHY I
Fall/Spring Semester, 1/2 Credit
This course teaches students the basics of digital photography using a DSLR camera. Camera operations, shooting techniques, photo software, and printing are covered. The aim is to learn to produce high-quality photos and expertise in all steps of the photographic process. Famous photographers and fine art photography are also explored.

PHOTOGRAPHY II
Fall/Spring Semester, 1/2 Credit
Prerequisite: Photography I
Students build upon the basic skills learned in Photography I and further explore the fine art possibilities of digital photography. Emphasis is placed on the mastery of those skills combined with the introduction and experimentation of image control and manipulation by means of lighting techniques, camera use, image editing software, and printing techniques. Students are encouraged to use self expression to personalize imagery. Enrollment must be authorized by the photography teacher and depends on Photography I enrollment.

ADVANCED PHOTOGRAPHY
Fall/Spring Semester, 1/2 Credit
Prerequisite: Photography II or Instructor’s permission
This course allows students to continue working with the photographic skills developed during Photography II. The content is very individualized and the instructor works closely with each student. Specialized techniques, such as High Dynamic Resolution (HDR), dramatic over- or under-exposure, and panoramics, are explored to encourage the advanced student to work outside her comfort zone.

STUDIO ART I
Fall/Spring Semester, 1/2 Credit
This course provides the foundation for all the subsequent art courses as students learn the basic skills, vocabulary, and techniques of two-dimensional art. Students work on a number of projects, each focusing on specific elements and principles of design, including color, composition, proportion, line, value, texture, and movement. They are guided through this sequential course of study, building on previous lessons. They work with both abstract and realistic techniques, and use different materials including pencil, ink, acrylic, cold wax, linoleum blocks, pastel, and scratchboard. Students write an artist’s statement at the completion of each project.

STUDIO ART II
Fall/Spring Semester, 1/2 Credit
Prerequisite: Studio Art I
This course is a continuation of Studio Art I. Students taking the course will build on the skills developed in that class and also add digital design elements that can be used to enhance the creative process. This course allows students more freedom in choosing projects and the media involved. Students focus on demonstrating the ability to convey personal thoughts and feelings through their art and developing their own style. Materials used are similar but not limited to the ones used in Studio Art I.
STUDIO ART III  
Fall/Spring Semester, 1/2 Credit  
*Prerequisite: Studio Art II*

This course is for students who have completed both Studio Art I and II and wish to continue to hone their skills. The content of this class is highly individualized and each student is allowed to choose each project and the medium to create it. The instructor works closely with each student throughout the creative process. Students are encouraged to try using new mediums and techniques on at least one of their projects during the semester.

ARTIST’S PORTFOLIO I, II  
Fall/Spring Semester, 1/2 Credit  
*Prerequisite: Completion of Level I, II, III, and Advanced in either Studio Art, Ceramics, or Photography. Transfer students may apply with a written statement of intent, a recommendation from a previous teacher, and an existing portfolio.*

This class is open to second-semester juniors and first-semester seniors by teacher invitation/student request only. The purpose of the class is to give students who plan to apply to art school the opportunity to develop a body of work that qualifies them for college admission and scholarship opportunities. Students who meet the prerequisite for this class will work on researching schools and their requirements, creating new works or refining pieces already in their personal portfolios, keeping a sketchbook and journal daily, writing personal artist’s statements, and photographing and digitizing each piece of art. Students will have two formal meetings for portfolio assessments each semester with the Fine Arts Department, College Counseling, their advisor, and the Assistant Head of School for Academics.

Students who take this class must work with all three of the visual arts teachers in order to produce a well-rounded portfolio. All work completed in class must be assigned and directed by the faculty member teaching the class. Work from outside programs which are not approved by the Foxcroft faculty or Assistant Head of School for Academics will not be considered for credit.

Music

MUSIC THEORY I  
One Semester, 1/2 Credit  

This course teaches the fundamentals of music with special emphasis on the building blocks of composition and ear training. Students master basic notation, key and time signatures, and chord structure. They develop aural skills, such as internal training, and rhythmic and melodic dictation. This course is offered based on student interest.

MUSIC THEORY II  
Fall Semester, 1/2 Credit  
*Prerequisite: Music Theory I or permission of the Instructor*

This course is a continuation of the Music Theory I course. Students begin to learn basic composition, studying four-part writing and chord analysis. As in Music Theory I, there is a strong emphasis on ear training and an introduction to sight singing. Students in this class compose and perform an original piece for the class at the end of the semester. This course is offered based on student interest.

ADVANCED MUSIC THEORY — INDEPENDENT STUDY  
Fall/Spring Semester, 1/2 Credit  
*Prerequisite: Music Theory II*

This one-semester course allows students to continue their studies in musical theory and composition. The class is tailored to the level of the student and delves into advanced composition and use of MIDI (Musical Instrument Digital Interface) technology in writing and creating music. This course is offered based on student interest.

Performing Arts

FOXCROFT CHORALE  
Fall/Spring Semester, 1/2 Credit  

This class meets in the evening and is open to all students who enjoy music and would like to develop skills in singing two- to four-part choral pieces. Musical selections include a wide range in style and variety. The Chorale performs at a number of school events, such as Lessons and Carols, the
Christmas Pageant, performing arts productions, and Baccalaureate. Chorale may also attend the State Choral Festival and occasionally travel into the community for local performances.

**FOXCROFT ENSEMBLE**  
Full Year, 1 Credit  
The Foxcroft Ensemble is open to all wind, brass, and string players who want to share their love of music with their peers and the community. It is a yearlong course. Students have the opportunity to choose some of their music, as well as learn how to transpose and arrange music for different instruments. The Ensemble performs at various school functions, including Lessons and Carols, the Spring Recital, and Baccalaureate. All students are welcome, any instrument, any level, to be a part of this fun and educational group. This course is offered based on student interest.

**VOCAL/INSTRUMENTAL LESSONS**  
Full Year, 1 Credit  
This course includes one private lesson per week with required practice times and a once-per-cycle meeting with other private lesson students to study music theory, music history, and stage skills as well as to share their growing performance skills with the group. Each student is required to perform once a semester during an in-class recital. Those who take lessons for credit may also be called upon to perform at various school functions throughout the year.

Lessons take place at times arranged by the teacher and the student and are available in the following disciplines: Voice (Classical and Musical Comedy), Piano, Violin, Viola, Flute, Clarinet, Electronic Music, and Guitar. Lessons for other instruments may be arranged through the Department. A schedule of fees for private music instruction is available from the Department.

**THEATER PRODUCTION**  
Fall Semester, 1/2 Credit  
The course is designed to give students an opportunity to experience all aspects of putting on a play and to give students who prefer straight drama and comedies over musicals a niche in performing arts at Foxcroft. Students will begin with dramatic monologues before moving on to act, direct, costume, design, and promote a one-act play, which is performed in early December. The play is chosen based on the number of participants. The class will also be involved in the technical aspects of the fall musical revue, which will give them an opportunity to learn and develop the crafts of set construction and lighting design.

**FOXCROFT MAINSTAGE**  
Spring Semester, 1/2 Credit  
This course's focus is producing a full-length musical to be performed in late April. Students learn acting methods and techniques by “doing” and class time is spent researching the play and the characters, learning music, blocking, and rehearsing. The final week before the performance, students commit to evening technical rehearsals. Individuals interested in acting, stage management, theatrical design, or technical work are encouraged to join this class.

**THEATER AUDITION WORKSHOP**  
Fall Semester, 1/2 Credit  
In this class, students continue honing their acting skills by developing several monologues and songs that can be used in auditions for college or theater. While the main focus in this class is on audition preparation, students also improve their stagecraft through participation in the fall musical revue. The semester culminates with a mock audition as the student’s final examination. Grading is based on effort, growth in skill, and performance.
**Wellness**

**WELLNESS**
Required for Freshmen, Fall Semester (Shared with Digital Literacy), Pass/Fail
Together with the Digital Literacy class, this course is an introduction to Foxcroft’s four-year Wellness Program, which teaches students about the factors that contribute to long-term wellbeing and empowers them to make personal choices that lead to a more successful existence now and throughout their lives. The freshman Wellness course focuses on navigating a new school and peer relations, addresses topics typically covered in health education classes, and introduces the principles of mindfulness and practices that are helpful. Subjects covered range from nutrition, sleep, and the female body to homesickness, anxiety, body image, and self-care.

**DIGITAL LITERACY**
Required for Freshmen, Fall Semester (Shared with Wellness), Pass/Fail
The focus of this class is to enhance our students’ ability to find, evaluate, utilize, and share information; teach new ways to create content using information, technology, and the Internet; and increase awareness and understanding of online security and safety issues.

Students use Google Apps for Education to create, store, and share content. They conduct research using Foxcroft digital resources, manage it with an online bibliographic tool, and report their findings with digital presentation tools such as Animoto, Prezi, and Glogster. Students learn about the risks associated with online activity and how to minimize it. We discuss social media and how information is shared among applications, devices, and organizations; learn about the permanence of digital information; and examine tracking techniques employed by commercial organizations. Students evaluate their digital footprint and consider whether changes are appropriate.

**ETHICS**
Required for Freshmen, Spring Semester (Six Weeks), Pass/Fail
Ethics are the values that we have developed from our family interactions, religious beliefs, social contexts, and personal experiences. This set of values drives our behavior and influences our expectations of how others should act. At Foxcroft, we live and work together in a community with shared values. This introductory class, which meets twice each week for six weeks, will help guide new students in making ethical decisions that are in alignment with Foxcroft’s values of integrity, respect, kindness, and service. Decision-making involves others — plagiarism, lying, cheating, stealing, and intolerance affect the quality of our life, impact our relationships, undermine feelings of trust, and may compromise the safety of others.

We all experience social and family pressures, and are exposed to media stories and scandals highlighting unethical behavior by business executives, political leaders, athletes, and common citizens. To help guide girls through life’s complexities and to empower them to act with moral courage, this class will provide students with a foundation in ethical thinking and ethical decision-making.

**UPPERCLASS WELLNESS PROGRAMS**
Wellness education continues through students’ Foxcroft years. Sophomores attend seminars and dorm-based programming that build on the freshmen Wellness class, including female anatomy and reproductive health, and alcohol and drug education. For juniors and seniors, Wellness programming focuses on issues relevant to students’ transition to college, such as personal safety and stress and time management. In addition, all students all participate in Foxcroft’s three-year curriculum in financial literacy program.
REQUIREMENTS
While attending Foxcroft, each student is required to participate in a structured physical activity during the fall, winter, and spring seasons. She has the choice of playing a team sport, taking a physical education class, or riding.

INTERSCHOLASTIC SPORTS
Foxcroft competes in the Delaney Athletic Conference, a consortium of 13 schools in Virginia, and against schools in the Greater Washington, DC area and Maryland. Nine varsity sports – seven of which field both varsity and junior varsity teams – are offered. Students on these teams are expected to attend all practices and games. In addition to skills specific to the sport, athletes learn the value of teamwork, discipline, responsibility, and sportsmanship. A complete athletic schedule is published prior to each season.

PHYSICAL EDUCATION CLASSES
Physical Education classes are scheduled after classes or as the schedule dictates. Classes may focus on fitness and conditioning, skills and training for specific sports, or special activities. They offer students the opportunity to improve their aerobic and anaerobic capacities and to learn the benefits of regular physical exercise. Specific offerings vary based on student interest.

RIDING
Please see Schedule of Fees for riding costs. Foxcroft has a comprehensive riding program that offers a well-rounded course in horsemanship. It is open to students of varying abilities, from the beginner to the experienced rider. Every girl enrolled in the program takes two lessons per cycle. If she is taking riding for PE credit, the student also must complete two general rides per week or participate in the PE Fitness program two days per week. The curriculum for mounted lessons is customized to suit riders at the Beginner, Intermediate, and Advanced levels. Experienced riders may choose to specialize in hunter-jumper, combined training, or dressage. In all disciplines, instruction is based on the tenets of hunter seat equitation in order to establish a fundamentally sound riding position.

Beginner classes emphasize grooming and horse care as well as mounted skills, including stability of position and control of the horse in a group setting. Intermediate and Advanced riders focus on maintaining form and learning more intricate flatwork and jumping exercises. Riders may compete in the discipline(s) of their choice. Competitive opportunities range from local to rated venues in all disciplines, as well as the Interscholastic Equestrian Association, the premier national organization for high school riders.

PHYSICAL EDUCATION OPTIONS

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- Physical Education
HONOR CODE

Foxcroft is a community built on trust. A Foxcroft girl is respectful to others and their property, dedicates herself to her academic pursuits, and models the School’s expectations both on and off school grounds. Every student in the Foxcroft community is expected to be honest in her academic work and in her interactions with members of the community.

Lying, cheating, or stealing, including plagiarism and the use of any false identities, violates our honor code, is considered prohibited conduct, and will result in disciplinary action.

Foxcroft School admits students of any race, color, religion, and national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the School. It does not discriminate on the basis of race, color, and ethnic origin in the administration of its educational policies, admission, or financial aid policies, loan programs, athletics, and other school-administered program.
Explore Foxcroft’s Academic Concentrations

Animal Science

Global Studies

STEM

The Arts

22407 Foxhound Lane
Middleburg, VA 20117
www.foxcroft.org
540.687.5555
admission@foxcroft.org