Reading, writing, and discussion encourage self-exploration and develop empathy. In four years of English, you’ll be challenged to expand your worldview by appreciating literary voices from different traditions and to communicate your own experiences and opinions in order to live an intellectually and emotionally rich life. Teachers work with you to hone your critical thinking skills and intellectual faculties so you can write original work confidently, understand and appreciate any given text, speak clearly and fluently, and use modern technology responsibly.

**English 1:**
**Exploring the Self Through Literature**
You will develop the art of dialogue, persuasion, and argumentation while examining diverse voices through thought-provoking reading, allowing you to find your individual perspective and voice within a learning community.

**English 2:**
**Choosing Purpose & Voice**
Develop analytical and persuasive skills as you explore and experiment with a variety of written forms. Continue to cultivate, both individually and collaboratively, a responsibility for discussion dynamics as you make connections between texts and ideas. Hone your writing process as you consider purpose, voice, and audience.

**English 3:**
**Considering Contexts and Making Connections**
Develop and deepen your understanding of text as a lens for understanding the world around you. You will engage with difficult and stylistically unconventional literature that will require practice in close reading and recognizing the role of nuance, bias, and context in the way that a text conveys meaning. You will explore these complex ideas through in-depth, sophisticated conversations and writing.

**English 4:**
**Senior Seminars - Beyond The Text**
Engage in college-style seminar courses, which address specific themes, regions, time periods, genres, and authorial circumstances centered around an essential question. All courses will sharpen your skills and writing voice. Students will deepen their understanding by seeking out and making connections to other texts, to historical and contemporary world events, and within the literary world.

**English 3 Honors:**
**Considering Contexts and Making Connections**
Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. You will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components.

**English 4 Honors:**
**Senior Seminars - Beyond The Text**
Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. You will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components.

Read about the seminars on the next page...

**Prerequisite:** Department approval.
Speculative Fiction
What do authors and artists think about when they imagine the future?
Explore the worlds created by some of the greatest writers in literature, exploring multiple perspectives on both the past and the future, as well as reflecting on and discussing diverse perspectives on our own evolving world. Through a wide range of authors, texts and essential questions, discover and explore ideas that inspire passion and creativity, with multiple modes of expressing students’ ideas and visions.

Literature of Activism
Changemakers of our world. Fighters for justice. Agents of social change. Brave tellers of unknown stories. Writing as rebellion. Ours is a time of changemakers, justice seekers, activists, rebels and storytellers, and it echoes past voices seeking truth and revolution. Examine texts (novels, plays, essays, speeches, news stories) of activists and activism. You will engage with past movements by examining these texts and use your voice as a vehicle for social justice issues that matter to you.

“Shorts”
They’re short, focused, and poignant: short stories, 55 (word) fiction, flash fiction, novelas, one-act plays, creative nonfiction, essays, the haiku (& other short poetic forms), and short films. Consider this course a sort of literary sampler as our readings will span genres, focuses, and themes: science fiction, magical realism, modernism, contemporary fiction, coming of age stories, existentialism, the American South, the Bay Area, international texts (South Africa, India, England, Colombia, and more!) and those that defy genre. Be prepared to do some experimental writing within all of these genres!

Adaptations
What is it that writers like Shakespeare or Conrad still have to impart on the modern world? Why continue to know who they are? And why do adaptations of literature become important for the age-old writers we tend to dismiss or overlook in the midst of such versions that become more well-recognized? In this course, look at literature reimagined in its more contemporary adaptations—literary and film—in an effort to better understand the relationships and messages that are able to be transformed, transcribed, and quite possibly preserved from one form to another.

The Art of Memoir
Examine several types of memoirs, considering the essential questions “What happens when we face our past rather than run from it?”, “what does it mean to write creative non-fiction?” “How can I write about a memory in a compelling way, while not embellishing the truth?” among others. Examine recent scandals involving “memoirs” that turned out to be highly fictionalized accounts, calling into question an author’s quest “to be real.” Skills emphasized will be listening, discussion, critical analysis, and essay writing. Create your own memoir-writing, honing your personal essay-writing skills working from both student and professional models.

Literary Animal
When looking back on the characters that have stayed with us, there’s no denying that some of the most prominent ones aren’t even human. Literature is filled with animals--from the picture books we loved as children to literary classics that continue to resurface. We will engage with a range of texts, from children’s stories and short fiction to novels and memoirs in order to unpack the roles animals play in the stories we write. Examining the anxieties, fantasies, contradictions, and questions of identity they bring to the surface.

The “Bad” Class
Through an exploration of literature, theater, film, and music, this class will delve into the darker side of the human experience. We will attempt to understand why human beings have violent tendencies, what those tendencies say about our nature, and what this implies for our understanding of the meaning and purpose of our lives. Topics explored include: violence perpetrated by minors including school shootings, the role of gender in violence, the nature vs. nurture debate, and existentialist philosophy.
GRADUATION REQUIREMENT: Four years

We live in an increasingly complex world that demands nuanced thinking. Every day in social studies at Drew, you will develop your critical reasoning skills while cultivating a sense of global awareness and social responsibility. You will develop a thorough understanding of historical and cultural developments across multiple world areas, and the desire to observe, analyze, and act according to your knowledge and principles in the contemporary world.

**Social Studies**

- **World History 1**
  Investigate the histories of China and the Islamic World, beginning with the origins of the earliest Chinese kingdoms and ending with examinations of contemporary China and the Middle East. You will apply critical reasoning and analysis, develop research methodology, and hone your writing skills to construct historical ideas that are attentive to context, nuance, and complexity.

- **World History 2**
  Explore the foundations of contemporary Western Civilization through a detailed study of Early Modern and Modern European History. You will investigate the connections between culture, politics, and socio-economic development while refining your reasoning skills and develop an understanding of significant aspects of European history.

- **U.S. History**
  Survey U.S. history from the English settlement of Jamestown and follow the development of the United States until the onset of the War on Terror. You will interrogate a variety of primary and secondary source texts and refine your critical thinking skills and intellectual voice as you use a historical lens to understand the past and present of the United States.

- **U.S. History Since 1945**
  Examine the history of the United States from the end of World War II until the present day using mass culture as a lens. You will identify, interrogate, and analyze power structures throughout history, applying historical methods and a comprehensive understanding of diverse narratives of the past to better understand the world and your place in it.

- **U.S. History Honors**
  Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. You will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components. **Prerequisite:** Department approval.

- **U.S. History Since 1945 Honors**
  Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. You will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components. **Prerequisite:** Department approval.

- **Global Politics in the 21st Century**
  Arrive at a deeper understanding of contemporary society and its challenges by applying international relations theory and foreign policy priorities to analyze real-world issues. You will learn about current situations related to balance of power, national interest, rogue states, and violent non-state actors by examining case studies of China, Russia, North Korea, Iran, ISIS, and others.

- **Good Governance**
  Examine successful governance around the world through a survey of basic political theory that includes diverse approaches to education, public health, public policy, and family law in this comparative government course.

- **Race and Gender Studies**
  Delve into the major questions and theories of race, gender, sexuality, and class as social categories and examine the processes through which people are categorized and how these processes shape individual experiences of the world.
Developing mathematical literacy is an explorative, dynamic and creative process essential to making informed decisions in an ever-changing world. You will work collaboratively as you focus on developing mathematical reasoning in order to become a critical thinker and an adaptable problem solver. By applying your mathematical knowledge and strategies to real-life situations, you will be prepared to meet the demands of college and the challenges that lie beyond.

Mathematics

**GRADUATION REQUIREMENT:** Three years. Four years is recommended.

Math I: An Intro to the Language of Mathematics
How does the language of mathematics aid us in our problem-solving? Develop a foundation in the language of mathematics by translating words into math symbols and learning expedient algebraic pathways to solving real-world problems involving linear and exponential growth. You will also be introduced to the tenets of Euclidean geometry and data analysis with emphasis on probability.

Math II: Studying Spatial Relations Through Mathematical Reasoning
How can insight into spatial relations provide greater knowledge of the workings of the world around us? Explore spatial relations, develop deductive reasoning skills, and investigate the connection between geometry and algebra through the study of transformations. You will also begin investigations into trigonometry and probability theory.

Math III: Building Fluency in the Language of Mathematics
How does extending your prior knowledge of mathematical structures advance the study of functions? Explore advanced algebraic concepts necessary to increase your understanding of functions that model the real-world. Trigonometry, as well as descriptive statistics, will also be explored in greater depth.

Math III/Precalculus: Navigating the Complex World of Functions
How does a thorough understanding of advanced algebraic concepts with respect to families of functions prepare us for calculus? Explore in depth the behavior of functions including trigonometric functions, by utilizing refined algebraic tools. This course, being two years of math condensed into one, is designed for students who have excelled in both Math I and Math II.

Prerequisite: Teacher recommendation and Department approval.

Precalculus: Modeling the World with Functions
Where do we find the tools to create models of real-life situations, and how do we apply these tools in problem-solving? Embark on an in-depth investigation of the behavior of functions, including exponential, logarithmic, rational and trigonometric functions, as you extend your ability to model the world mathematically.

Prerequisite: Math III

Discrete Math: The Art of Problem Solving
How does mathematics provide us with algorithms that can be used as tools for problem-solving in applications such as finance, voting, encryptions, statistics, networking, graph theory, game theory, and other alternative paths of mathematical pursuit? Experience not only the beauty of mathematics but also its interdisciplinary utility.

Prerequisite: Math III

Statistics Honors: Modeling Prediction
How can we make informed inferences and accurate predictions using the tools of mathematics? Collaboratively develop an in-depth understanding of descriptive statistics as well as probability. In inferential statistics, you will measure the “significance” of hypotheses regarding health, economics, politics etc., thereby laying the foundation for prediction.

Prerequisites: Math III and Department approval.

The Calculus Lab: Investigation & Application
How does the beauty of calculus resonate in the world around us? Discover the foundational concepts of the study of change by working collaboratively on investigations. You will also begin to use the tools of calculus to solve real-life problems from population growth to the rising of the tides.

Prerequisites: Precalculus

Calculus Honors: The Study of Change
How can the study of change lead to advancements in our understanding of the natural and physical world? Investigate the study of limits with respect to change by digging deep into differential calculus as well as explore the notions of net change, areas and volumes using integral calculus. This course is designed for students who are interested in studying mathematics in college as either a major or prerequisite for further studies in the sciences.

Prerequisite: An A average in Math III/Precalculus or Precalculus and Department approval.
Science

GRADUATION REQUIREMENT: Three years.

Each student is an explorer, and every day in the Science Department at Drew you’ll cultivate your curiosity and develop the tools and tenacity to pursue authentic questions. Drew’s science classes emphasize experiential learning, community integration, and hands-on, student-driven projects that spark a lifelong curiosity about the world from a scientific perspective.

Biology
Explore the aspects of life on Earth through experimental design, research projects, field-work, and labs. The four major units covered are Ecology, Cell Biology, Genetics, and Evolution. Within each of these units, you will explore biochemistry, cell structure and function, heredity and population genetics, as well as human evolution and the diversity of invertebrate and vertebrate life. Throughout these units, you will learn and practice scientific skills, proper lab techniques, data collection, and analysis.

Chemistry
Explore the fundamentals of chemistry including measurement, properties of matter, gas laws, the structure of the atom, electron configuration, periodic table patterns, bonding, chemical reactions, stoichiometry, solutions, and acids and bases through projects and laboratory explorations.

Physics
Focus on motion, forces, energy and momentum while creating models of physical phenomenon and testing hypotheses to determine which ones best describe nature. This course involves extensive lab design to broaden your understanding of the scientific approach, applied math, and data analysis.

Chemistry Honors
Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. Students will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components. 
Prerequisite: Department approval.

Physics Honors
Honors classes explore similar topics as the corresponding course but at an accelerated pace with additional depth. Students will be expected to perform more complex, self-driven assignments in addition to additional reading, writing, and research components.
Prerequisite: Department approval.

Advanced Electives
The Science Department offers a rich array of advanced electives open to 10th-, 11th-, and 12th-graders. Please see the next page for those course descriptions.
COURSE PROGRESSION

Science

GRADUATION REQUIREMENT: Three years.

Anatomy & Physiology Honors
Discover the beauty and complexity of the human body, building up from molecules to cells, to tissues and systems. Any student considering a career in healthcare or who simply has a genuine desire to learn about the body should consider this course.
Prerequisite: Chemistry and Department approval.

Environmental Science & Policy
Take an interdisciplinary approach to the major topics of environmental science with an emphasis on problem-solving. You will delve into topics like biogeochemical cycles, climate change, energy resources, biodiversity and conservation, bioethics, population, water, and environmental policy.
Prerequisite: Biology

Zoology
This course is an exploration of Kingdom Animalia. You will study vertebrate and invertebrate animals, their evolutionary relationships, and biology. This class will focus on animals’ anatomy and physiology, behavior, and ecology.
Prerequisite: Biology

Introduction to Engineering
Explore the fundamentals of engineering by utilizing tools and techniques in hardware and software. Learn how to solder, construct a robotic arm, and program a microcontroller. The culmination of the class involves researching, designing, and prototyping your own custom passion project.

Marine Biology Honors
Examine marine sciences through topics including physical oceanography, planktonic life, and a survey of invertebrate and vertebrate life in oceans including sea turtles, marine mammals, and seabirds. Each topic will examine conservation issues and strategies, culminating with an exploration of marine and terrestrial ecosystems on Santa Catalina Island.
Prerequisite: Biology and Department approval.

Molecular Biology & Biotechnology
Explore the interdisciplinary world of biotechnology using scientific literature, hands-on experience, and research projects. You will learn the essential skills, understandings, and laboratory techniques involved in practicing molecular biology.
Prerequisite: Chemistry

Advanced Topics in Chemistry:
Environmental Chemistry Honors
Broaden and deepen your understanding of chemistry and its role in the modern world as you study the chemistry of water systems, atmospheric chemistry, agricultural chemistry, mineral and mining chemistry, and food chemistry.
Prerequisite: Chemistry and Department approval.

Advanced Topics in Physics Honors
Continue your exploration of the physical world by designing labs to build and test scientific models and by applying mathematics to tackle practical scientific problems. This class is ideal if you have an interest in becoming a professional scientist because you will make links with real-life research questions.
Prerequisite: Physics and Department approval.
The ability to communicate in more than one language is an essential life skill. Drew’s World Languages department creates authentic language opportunities to send you into the world as a culturally competent global citizen. At Drew, you can study American Sign Language, French, Mandarin, and Spanish.

**Level 1: Introductory**
Learn vocabulary to practice simple interactions and present yourself to the world while developing an authentic voice in a new language. You will learn to recognize and apply language patterns to start communicating effectively. Through cultural explorations, you will develop awareness and curiosity in regards to varied cultural perspectives, including your own. A significant portion of this level focuses on language learning and communication strategies-- in other words, learning how to learn a language and to use the language you have acquired to express your ideas.

**Level 2: Advanced Beginner**
Develop your reading, writing, listening, and speaking skills in order to engage with materials of increasing complexity. You will learn to notice and react to linguistic cues, navigate communication breakdowns, and cope with the stress that often occurs when speaking a new language. You will continue to personalize language to connect with others and express your authentic self, as you further explore the links between culture and language to better articulate differences, similarities and connections among cultures. You will examine your own learning process through reflection activities.

**Level 3: Intermediate**
Incorporate new vocabulary and grammatical structures while continuing to develop the four core skills (reading, writing, listening, and speaking). Explore and practice different registers of language while learning to add nuance to the expression of your personal voice. Level 3 involves a greater emphasis on speaking skills, and you will learn to persist in attempts to communicate in part by practicing strategies to minimize affective filters. The connections between language and culture are explored in greater depth. You will explore answers to the questions: Through what lenses do I perceive other cultures and information about these cultures? How might I adapt these lenses?

**Level 3 Honors: Intermediate (Spanish only)**
Students who develop a high level of competence in Level 2, are able to communicate exclusively in Spanish, as well as synthesize previous information with new material will be encouraged to take Spanish 3 Honors.
Prerequisite: Department approval.

**Level 4: Advanced**
Interact with and create content in various types of discourse and registers, while reviewing and solidifying knowledge of grammatical structures. You will continue to manipulate language while deepening your understanding of cultural connections and contexts. Reflective practices play an important role to both self-assess your work and strengthen your awareness of your identity as a world language speaker. You will be pushed to develop a greater tolerance for cultural and linguistic ambiguity and examine the inherent benefit of reflecting on a community’s cultural practices.

**Level 4 Honors: Advanced (Spanish only)**
Students who develop a high level of competence in level 3, are able to communicate exclusively in Spanish, and synthesize previous information with new material will be encouraged to take Spanish 4 Honors.
Prerequisite: Department approval.

**Level 5: AP Language & Culture (French & Spanish only)**
The AP Language and Culture course is structured around the six College Board suggested themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. You will analyze a variety of authentic materials while developing your skills across the three modes of communication: interpretive, interpersonal, and presentational. This intensive and rewarding linguistic and cultural exploration culminates in sitting for the AP exam in May.

**Level 6: Mastery**
Having completed the AP Language and Culture course, you will continue to explore material including literature, film, newspaper articles, podcasts, and other authentic source materials as you work independently on a variety of research projects, cultural explorations and presentations.
Performing Arts

GRADUATION REQUIREMENT: Two years in either Visual or Performing Arts

In Drew’s Visual and Performing Arts departments, you will develop as an artist through authentic, engaging experiences. You will integrate theory and practice in each discipline as you utilize Drew’s supportive environment to experiment, collaborate and, ultimately, grow in your craft. By practicing making art, you will achieve mastery while developing your individual voice. You will also integrate the city as an extended lab for museum trips, artist visits, and working on location. You will make use of Drew’s dedicated studios for both visual and performing arts through traditional and digital media.

Music Production 1, 2, and 3
Compose, notate, and create audio recordings using digital sound-synthesis and recording equipment. In your first year, you will develop a portfolio of polished pieces. In subsequent years, you will develop more complex and polished compositions, using acoustic and electronic sources and working in a variety of environments to further develop microphone techniques, sampling, editing, mixing and mastering.

Instrumental Ensemble 1, 2, and 3
Practice reading, writing, and arranging music in a collaborative, small-ensemble setting. You will develop musicianship and instrumental technique on your instrument as you develop communication and improvisation skills with your colleagues, culminating in performance for a public audience. In subsequent years, you will transcribe, arrange, and rehearse musical examples with the ensemble, developing high level of independence, leadership, and comfort in collaborating with the group.

Vocal Ensemble 1, 2, and 3
Focus on a wide array of musical genres, from classical to Broadway to modern popular, as you learn musicianship skills and music notation to prepare solo and ensemble selections for public performance. In subsequent years, you will deepen your musicianship skills and your vocal technique, as well as demonstrating increased levels of independence, leadership, and comfort in collaborating with the group.

Theater Ensemble 1, 2, and 3
Experience the transformation of live theater from page to stage, learning how to be seen, heard, understood, and believed. You will develop the confidence to tell your own story, as well as the empathy to appreciate different perspectives. In subsequent years, you will experiment with a variety of physical and vocal techniques, research methods, and improvisation techniques, learning to develop character and collaborate with the ensemble. You will also see and reflect upon live performances in venues on and off the Drew campus.

Theater Production 1 and 2
Learn the skills and equipment needed to take a theatrical event from a conceptual design through mounting a production. Emphasis will be placed on learning about the stage and its equipment, materials and construction of scenic, prop, and costume elements, lighting, sound, and design.

Musicianship and Composition Honors
Deepen your awareness of harmonic, rhythmic, and textural elements in composing music of diverse styles and genres. You will cover much of the AP music curriculum in a project-based format, exploring voice-leading, chord-progressions, harmonizing melodies and basslines, and arranging music for different musical instruments.

Prerequisite: Department approval.

Advanced Ensemble Honors
Honors ensemble work prepares the serious student for life in the arts beyond high school. You will be challenged to take control of the ensemble’s work as a master collaborator, from researching and selecting material, helping to lead practice and rehearsal, engaging in design and arrangement, and helping to envision production. You will also engage in critical reflection about the work of the ensemble as you practice leading and teaching your peers.

Prerequisite: Three years of ensemble work and/or Department approval.
In Drew’s Visual and Performing Arts departments, you will develop as an artist through authentic, engaging experiences. You will integrate theory and practice in each discipline as you utilize Drew’s supportive environment to experiment, collaborate and, ultimately, grow in your craft. By practicing making art, you will achieve mastery while developing your individual voice. You will make use of Drew’s dedicated studios for both visual and performing arts through traditional and digital media. You will also integrate the city as an extended lab for museum trips, artist visits, and working on location. In each Visual Arts class, you will prepare work for display in gallery walk events and school exhibits.

**Graduation Requirement:** Two years in either Visual or Performing Arts

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<tr>
<th>Course</th>
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<tr>
<td>Digital Filmmaking 1 and 2</td>
<td>Use the creative process to explore your evolving and authentic voice through the visual language, themes, and techniques used by filmmakers to craft experimental and narrative movies.</td>
</tr>
<tr>
<td>Photography 1 and 2</td>
<td>Explore your voice through the visual language, themes, and techniques used by photographers to craft expressive and cohesive images. In addition to creating work for display, you will publish a portfolio of your work.</td>
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<tr>
<td>Drawing &amp; Design 2</td>
<td>Explore design-thinking and the creative process by designing work in fashion, furniture, and architecture.</td>
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<tr>
<td>Graphic Design 1 and 2</td>
<td>Use the creative process to explore the principles of design, typography, color, composition, and visual communication by developing expressive work with a variety of software tools. In addition to creating work for display, you will create designs for student events.</td>
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<tr>
<td>Printmaking 1 and 2</td>
<td>Harness the creative process to explore a variety of media and techniques, including linoleum, woodblock, transfers, and screen printing.</td>
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<tr>
<td>Painting 1 and 2</td>
<td>Explore form, content, and visual expression using accurate rendering and abstract approaches to painting.</td>
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<tr>
<td>Sculpture 1</td>
<td>Use the creative process to explore the principles of form, spatial composition, and creative expression through molding, carving, and three-dimensional fabrication.</td>
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<td>Advanced Studio Art</td>
<td>Advanced Studio prepares the serious student for life in the arts beyond high school. You will be challenged to achieve depth to your work through studio practice, regular critique, and portfolio development. In so doing, you will refine the self-expression and technical skills that will prepare you for art school.</td>
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Prerequisite: Department approval.

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<tr>
<td>Portfolio Development</td>
<td>Portfolio Development allows you to push your dedication to a particular medium to greater depth. You will be challenged to work independently and to engage in self-reflection as you refine your work and create and execute a vision for a portfolio with your chosen medium.</td>
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Prerequisite: Two years of medium-specific training and Department approval.
COURSE PROGRESSION

Social Entrepreneurship
Uncover the complexity of the intersection of equity and entrepreneurship through the lens of equity and justice. Work with real companies with inclusive missions to learn the ins and outs of the business model while building an understanding of the impact of systematic oppression, power, and privilege.

Computer Science
You will master the fundamental concepts of computer science and explore how computers and technology are part of their world. You will learn the basics of web design, programming, and computer hardware as you examine the internet and its impact from the personal to societal.

Computer Programming
Build on your understanding of computer science by progressing with greater depth into the world of programming. Throughout the year, you will engage with challenging, interactive projects of increasing complexity, creating audiovisual displays that represent real data.

Prerequisite: Computer Science.

Academic Electives