



SOLEBURY SCHOOL

Course Descriptions for Winter and Spring

2022 - 2023

The guidelines and curriculum of Solebury School's academic program

Course Offerings for the 2022-2023 Winter and Spring Terms

At the time of publication of this document, the list of course offerings may not be complete. Solebury School reserves the right to make changes in these offerings without notice. Students wishing to pursue courses not listed in this Bulletin should consult with the Director of Studies.

Departmental Table of Contents

| | |
|----------------------------|-------|
| English | p. 3 |
| Mathematics | p. 6 |
| Science | p. 7 |
| Social Studies | p. 10 |
| Visual and Performing Arts | p. 12 |
| Computer Science | p. 21 |
| Appendix: Course Sequences | p. 23 |

ACADEMIC BULLETIN

2022 – 2023 (winter / spring)

The courses described in this bulletin comprise Solebury School's academic program. Although each discipline teaches its own skills and its own methods, they have in common the goals of teaching you how to learn, how to solve problems, and how to become as effective a person as you can be.

ENGLISH

WINTER TRIMESTER COURSES

Coming of Age: “All children, except one, grow up,” wrote J.M. Barrie to launch the classic story of *Peter Pan*. Yet *how* do we all grow up? When does childhood end and adulthood begin? In this class, we will explore the experiences, realizations, tensions and awakenings that are part of the coming of age process. We will look at what it has meant to come of age in literature, and also examine how the digital age has changed the way we grow up now. Do today’s teens grow up faster? Or, like Peter Pan, do they not grow up at all? To answer these questions, we will use myths, fairy tales, short stories, essays, articles, paintings, poems and film to understand what it means to navigate the passage between childhood and adulthood. Throughout the course, students will be prompted to reflect on their own coming of age, with writing assignments that include personal essays, poetry and a fiction project. Overall, the goal of this English elective is to delve into the coming of age topic in a dynamic way, with a classroom full of students who are living the theme. *2 credits*

Journalism: Get the facts. Uncover the truth. Write clearly, concisely and beautifully. These are the goals of this class designed to offer students a crash course in journalism. In this English elective, students will learn how to structure an article, develop reporting skills, find reliable sources, conduct a successful interview, and write stories that are accurate, clear, creative, informative and compelling. In addition to learning how to write news stories, features, profiles and editorials, students will also read Pulitzer Prize-winning articles to study the best examples of journalism today. Along the way, we will also discuss the history of journalism, the evolution of the media, journalistic ethics, photojournalism and what to do about “alternative facts.” Students will be assessed based on weekly writing assignments and class participation. *2 credits*

Reading & Writing Poetry: This elective will promote a trimester-long conversation about how poets uncover and incorporate poetry in their daily lives. Where and how do poems happen? This extended conversation demands a profound openness to exploration and constructive discomfort. Poets in this course are asked to experiment with new ways of writing, of reading, and of thinking about language. Our readings will consist of canonical poetry and contemporary writers as well as, of course, one another’s poetic work. Our engagement with these texts will propel our own creative output (poetry is, after all, a conversation) and our critical acumen as readers of literature. Expectations include a deep engagement with the material as evidenced by respectful participation in classroom discussions (including workshops), quizzes, substantial creative work, critical writing, and an ongoing journal practice. *Prerequisite: recommendation of instructor and a B or better in regular English 11, B- or better in Honors English 11 or American Studies. Honors, 2 credits*

Civil Rights to Black Power: Texts and Contexts: Come join us as we focus on the history of African Americans from the Civil Rights Movement of the 1950s to the Black Power Movement of the 1980s. We will dig in deeply into a variety of sources, ask “why” questions as much as we can, and try to confront the “reality” of learning the historical narrative of these people that has often been suppressed

and ignored. What are the origins of these movements? How radical are the key players? How has the history of these groups been whitewashed to create palatable and “nice” stories for our classrooms? Can we pull back the curtain and determine for ourselves what the truth of these movements was or is based on evidence and historical documents? And are such high expectations attainable? Only we, the instructor and the students, can determine the answer to this question. I am confident, however, that with focus, commitment, and our ability to create an honest and safe community, we can work toward this goal. Special attention will be given to addressing and acknowledging the various elements of identity and the construction and experience of race. Students will work on refining their reading, writing, and thinking skills as they encounter primary and secondary resources, films, graphic novels, music, and more. Ultimately, students will work *with* the instructor to create a dynamic, intense, and vibrant classroom experience where all participants will take part in leading and shaping this course. The only prerequisite is a curious mind. This class may also be taken for Social Studies credit. *2 credits, Global and Social Justice Concentrations*

Modernism and Beyond: This course explores changes in art, culture, economics, music, and literature over the “long 20th century”. We will aim to understand what was driving artists and thinkers of all kinds to challenge and overturn Victorian culture and conventions, and we will follow these challenges into the present day. This course is designed for students who are interested in the history of ideas and who are open to reading, viewing, and listening to works that aim to push boundaries. Students will be asked to show their understanding of this material in a variety of ways, including creative writing, research, and various kinds of presentations. *2 credits*

Diversity and Culture Share: This is a performance class designed to celebrate the diversity of cultures represented by each person enrolled. Share a song, a poem, a short story, a dance... In this class, students will explore and exchange their personal stories and those of their ancestors through music, dance, poetry, song, and storytelling. The performance aspect of this class will be cultivated from a regular practice of sharing with each other, then in collaboration with the End of Trimester music and dance concert. Grading is based on attendance, regular participation, and the personal growth that tends to happen when we humans listen to and learn from each other’s lived experiences. This class is open to all who are interested or curious. *2 credits, Global and Social Justice Concentrations*

SPRING TRIMESTER COURSES

First Ladies of the United States: This course will take a deep dive into some of the prominent first ladies of the United States, analyzing their lifestyles, political movements they dedicated themselves to and deeper discussion on the power and influence women have held in this position. Throughout history, this country's expectations and responsibilities have grown with the first lady position and we will analyze how this role impacts society. We will center our conversations around deep analysis in films, television series and literature that has historically depicted the first ladies. They all are present in different and interesting moments in history that span from World Wars, The Great Depression, Civil Rights Movement and the War on Terror. Our first ladies experience racism, sexism and discrimination from their negative portrayals in media, yet they display strong moments of agency and representation. Students will work on strengthening their critical thinking skills, writing and reading through a rich engagement of various texts forcing them to think deeply about society and how culture impacts historical moments. This class may also be taken for Social Studies credit. *2 credits*

International Horror Literature: Why do we expose ourselves to the horrific in popular culture? Why do we peek from under blankets at ghastly images on screens? Why do we read tales of the supernatural by flashlight in darkened rooms? This attraction to horror persists across borders, spreading around the globe. Despite this shared appeal, horror itself often takes on different tones based on its cultural origin. In this class we will view examples of horror literature from around the globe, noting how a country or region's historical positioning influences the content of a text. We will look at works of fiction, film, and poetry from a wide range of countries and cultures. Students will be asked to respond to this work through quizzes, critical writing, film reviews, and a creative project. *Prerequisite: recommendation of instructor and a B or better in regular English 11, B- or better in Honors English 11 or American Studies. Honors, 2 credits*

Podcasting: This course is designed to help students become better communicators and storytellers through learning to write, produce and create podcasts. The popularity of podcasts has exploded in the last several years. In this class, students will discover the reasons for this trend as they fall in love with podcasting and learn to tell their own stories in sound. This class will include lessons on storytelling, interviewing, researching, writing for the ear, and developing a "radio voice". We will also spend time listening to and deconstructing great podcasts. The class is project-based, and students will be invited to experiment with creating scripted narrative podcasts, interview podcasts, documentary-style podcasts, and free-form conversational podcasts. *2 credits*

Short Story Writing: Do you like to pretend? Do stories and plotlines scroll through your head, begging to be written down? Do unusual characters populate your subconscious, pleading to be heard? Or, perhaps after years of writing academic papers, do you want to just get creative and try something different? This is a class for those who believe (or want to believe) that writing can be fun. In this class, we will tackle the classic art of short story writing by reading short stories and writing our own. Throughout the course, we will do flash fiction writing exercises, work on writing stories, and discuss various writing techniques for developing plot, building characters, developing narrative voice, writing dialogue, and using artful language. So, come share your stories. Let your imagination run wild. Get your pretend on paper. *2 credits*

MATHEMATICS

SPRING TRIMESTER COURSES

Architecture and Design: This course (offered in the spring term) is designed to give students a wide net of exploration into the world of architecture with an emphasis on European Architecture, specifically Roman influences. All architecture will be explored through an engineering and artistic point of view. The main points of interest include: skyscrapers, bridges, and design elements. We will also explore natural forces such as wind and earthquake issues as well as environmentally friendly options. This class will incorporate creative explorations which will end with a completed portfolio of a city designed by the student. This class fulfills a global studies program credit. *Prerequisite: none, **Global**, 2 credits.*

SCIENCE

WINTER TRIMESTER COURSES

Computer Programming: This course offers an introduction to computer science covering the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem-solving skills. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. In this course, you will write and run JavaScript programs in the browser using the CodeHS editor. This course is designed for beginners and does not require any computer programming experience. The course is intended to be highly visual, dynamic, and interactive for new coders. *1 credit*

Introduction to Engineering: This class is designed to be an educational and entertaining single trimester introduction to applied STEM (Science, Technology, Engineering, and Mathematics) concepts. Using basic aviation concepts as a foundation for design, group and project based learning will be emphasized in this course with a curriculum designed to introduce students to basic engineering design concepts and project management fundamentals necessary to plan and build a project while adhering to an anticipated schedule. Modern skills and technology used to assemble basic projects will be introduced with a focus on design using computers and access to the school's 3D printer and makerspace materials. The technical aspects of coding and computer programming are not emphasized in this course, although students with a more technical background are welcome to contribute additional levels of engineered complexity to their group projects. *Prerequisite: None. 2 credits.*

Engineering II: Advanced Engineering Design: This class will work with the applied STEM (Science, Technology, Engineering, and Mathematics) concepts from the Engineering I class and use them to demonstrate projects for practical use. The emphasis of the class will be on the design of projects which reinforce mechanical design skills while incorporating advanced technology including 3D printing and programmable circuit design. Students will learn to independently operate and maintain the IDEA Lab makerspace equipment including the 3D printers and laser cutter and CNC machine. Group and individual final projects will be expected at the end of the trimester, and may include an opportunity to participate in a regional engineering competition. *Prerequisite: Engineering I. 2 credits*

Environmental Justice: Everyone is affected by climate change. During this class, we will take a look at scientific issues and talk about complex issues of power, history and race and see how communities are disproportionately affected. We will cover topics on air pollution, water pollution and climate change. This class fulfills a Social Justice program credit. *Prerequisite: none.. Environmental Justice is intended for 11th and 12th graders. 2 credits*

Forensics: This course is intended to be an opportunity for students to apply various aspects of previous science classes to the collection and interpretation of physical evidence. The lectures and in-class labs will include a variety of methods of crime scene investigation including inspecting a crime scene, blood spatter analysis, DNA fingerprinting, entomology, hair and fiber analysis, fingerprint analysis and other relevant methods of evidence collection. Case studies will also be used to gain a greater appreciation for how forensic investigation is used in the solving of crimes. Coursework includes lectures, hands-on lab activities, research papers, and presentations. *Prerequisites: None. Forensics is intended for 10th, 11th, and 12th graders. 2 credits*

Game Design in Unity: This course teaches the fundamentals of designing a game using Unity as the game engine, run through the CodeHS platform. The intent of this course is to prepare high school students with the industry-related skills needed for the workplace and higher learning environments. By the end of this course, students will understand the design planning process, be knowledgeable of

industry-related careers, and be able to navigate the Unity environment in order to create 3D games. *1 credit*

Health: This course provides an opportunity for students to learn about fitness, nutrition, drug use and abuse, lifestyle choices, sexually transmitted diseases, environmental health issues, birth control and other topics surrounding a person's physical and psychological well-being. This course is intended for 9th and 10th grade students. *1 credit*

SPRING TRIMESTER COURSES

Astronomy: The Solar System: Exploring Our Cosmic Neighborhood: "The Solar System" is an elective science course. The foundation for the course will be the history of astronomy, and the evolution of mankind's understanding of the stars and planets. Students will begin the trimester investigating the Earth-Moon system, followed by "The Solar System," and finally moving on to stars and galaxies. While this course will offer merely a glimpse of all that there is to learn in the field of astronomy, students should leave the course with the skills and knowledge needed to pursue their interest further if they choose. In addition to the topics covered in this course, students will learn how to use telescopes and other observational techniques. Students will be expected to participate in several evenings of observations on campus, and will be expected to attend at least one field trip to an astronomy-based site off-campus. A basic understanding of physics, and both geometry and trigonometry, is useful for students who wish to take this course. *Prerequisite: Biology or taking Biology concurrently.* This course is intended for 11th and 12th grade students. *2 credits*

Computer Programming: This course offers an introduction to computer science covering the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem-solving skills. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. In this course, you will write and run JavaScript programs in the browser using the CodeHS editor. This course is designed for beginners and does not require any computer programming experience. The course is intended to be highly visual, dynamic, and interactive for new coders. *1 credit*

Engineering II: Virtual Reality: This class will work with the applied STEM (Science, Technology, Engineering, and Mathematics) concepts from the Engineering I class and use them to design games and projects in the emerging popular medium of Virtual Reality. After an introduction to the field of Virtual Reality programming including history and recent developments in the technology, the students will be able to explore the HTC Vive VR system and related design applications to create their own projects. *Prerequisite: Engineering I. 2 credits*

Field Ecology: Ecology is a branch of biology looking into the relations of organisms to one another and to their physical surroundings. This course focuses on building field skills, scientific observations, gaining experience with data collection, and developing understanding of complex systems. It explores Eastern Pennsylvania ecosystems in depth and in person, with the class time devoted to understanding ecosystems around the world. It will examine human impacts on environmental quality, but will also focus on the ways that ecosystems can coexist with humans. Class will consist of labs and field labs, lecture, research, and projects. *This course is intended for 10th, 11th and 12th grade students. 2 credits*

Game Design in Unity: This course teaches the fundamentals of designing a game using Unity as the game engine, run through the CodeHS platform. The intent of this course is to prepare high school students with the industry-related skills needed for the workplace and higher learning environments. By the end of this course, students will understand the design planning process, be knowledgeable of

industry-related careers, and be able to navigate the Unity environment in order to create 3D games. 1
credit

Health: This course provides an opportunity for students to learn about fitness, nutrition, drug use and abuse, lifestyle choices, sexually transmitted diseases, environmental health issues, birth control and other topics surrounding a person's physical and psychological well-being. This course is intended for 9th and 10th grade students. 1 *credit*

Science of Movement and Exercise: This trimester course will concentrate on the movement of the human body during physical activity. You will have the opportunity to learn the basics of biomechanics, kinesiology, and exercise science. Topics will include anatomical direction, kinematics and kinetics, identifying forces on the body (acceleration, momentum, speed, power, energy), analyzing sport skills and identifying proper movement patterns, biomechanics of strength training, and different types of energy systems used while exercising. This course is intended to be hands on with a lot of movement. We will be going to the weight room frequently and will some days exercise to understand the concepts we are learning. There is a heavy emphasis upon vocabulary in this course and it will be assigned to students with the expectation that they will learn much of it on their own. Grades will be determined by a series of quizzes, homework, and lab work. *Prerequisite: Biology or concurrent with Biology.* This course is intended for 11th and 12th grade students. 2 *credits*

Robotics: This course will teach students the foundations of building and programming autonomous robots. The course is designed to get students thinking about the patterns and structure of not just robotics, but also programming and problem-solving more generally. LEGO MINDSTORMS EV3 will be used to provide a structured sequence of programming activities in real-world project-based contexts. 2
credits

SOCIAL STUDIES

WINTER TRIMESTER COURSES

Civil Rights to Black Power: Texts and Contexts: Come join us as we focus on the history of African Americans from the Civil Rights Movement of the 1950s to the Black Power Movement of the 1980s. We will dig in deeply into a variety of sources, ask “why” questions as much as we can, and try to confront the “reality” of learning the historical narrative of these people that has often been suppressed and ignored. What are the origins of these movements? How radical are the key players? How has the history of these groups been whitewashed to create palatable and “nice” stories for our classrooms? Can we pull back the curtain and determine for ourselves what the truth of these movements was or is based on evidence and historical documents? And are such high expectations attainable? Only we, the instructor and the students, can determine the answer to this question. I am confident, however, that with focus, commitment, and our ability to create an honest and safe community, we can work toward this goal. Special attention will be given to addressing and acknowledging the various elements of identity and the construction and experience of race. Students will work on refining their reading, writing, and thinking skills as they encounter primary and secondary resources, films, graphic novels, music, and more. Ultimately, students will work *with* the instructor to create a dynamic, intense, and vibrant classroom experience where all participants will take part in leading and shaping this course. The only prerequisite is a curious mind. This class may also be taken for English credit. 2 credits

Humanistic Psychology: The Third Force: The purpose of this class is to introduce students to a variety of psychological perspectives relating to the idea of “being human”. The theme for this trimester is: “Who am I Being?” Students will be exposed to various schools of thought of some famous Humanistic/Existentialist psychologists including Husserl, Heidegger, Maslow, Rogers, Binswanger, Frankl, Perls; and will be asked to analyze selected psychological concepts, including: “*freedom*”, “*authenticity*”, “*anxiety*”, “*intentionality*”, “*self-actualization*”, “*self-transcendence*”, “*unconditional positive regard*”, “*logotherapy*”, “*Noö-dynamics*”, and “*Gestalt*”. Students will examine a selection of psychological topics including personality; relationship with self, others, and the world; and mental health. The class will encourage students to utilize the knowledge, skills and understanding acquired in the class to develop a healthy way of relating to their “self/selves”, others and the world around them. Students are evaluated: on the quality and quantity of their participation in group and class discussions; on their individual and group presentations; and on a final extensive reflective essay and/or journals and/or multiple intelligence project. 2 credits

SPRING TRIMESTER COURSES

Modern Psychology: The Way Forward: The purpose of this class is to introduce students to a variety of psychological perspectives relating to the idea of “fulfilling potential”. The theme for this trimester is: “How Can I Be My Best Self?” Students will be exposed to various schools of thought of some famous psychologists including Bandura, Tomkins & Ekman, Goleman, Gardner, Seligman, Gottman; and will be asked to analyze selected psychological concepts, including: “*observational learning*”, “*Affect Imagery Consciousness*”, “*microexpression*”, “[*Facial Action Coding System*](#)”, “*emotional intelligence*”, “*dissonance, resonance and leadership*”, “*multiple intelligences*”, “*authentic happiness*”, “*learned optimism*”, and “[*Cascade Model of Relational Dissolution*](#)”. Students will examine a selection of psychological topics including personality; relationship with self, others, and the world; and mental health. The class will encourage students to utilize the knowledge, skills and understanding acquired in the class to develop a healthy way of relating to their “self/selves”, others and the world around them. Students are evaluated: on the quality and quantity of their participation in group and class discussions; on their individual and group presentations; and on a final extensive reflective essay and/or journals and/or multiple intelligence project. *2 credits*

First Ladies of the United States: This course will take a deep dive into some of the prominent first ladies of the United States, analyzing their lifestyles, political movements they dedicated themselves to and deeper discussion on the power and influence women have held in this position. Throughout history, this country's expectations and responsibilities have grown with the first lady position and we will analyze how this role impacts society. We will center our conversations around deep analysis in films, television series and literature that has historically depicted the first ladies. They all are present in different and interesting moments in history that span from World Wars, The Great Depression, Civil Rights Movement and the War on Terror. Our first ladies experience racism, sexism and discrimination from their negative portrayals in media, yet they display strong moments of agency and representation. Students will work on strengthening their critical thinking skills, writing and reading through a rich engagement of various texts forcing them to think deeply about society and how culture impacts historical moments. This class may also be taken for English credit. *2 credits*

Modern United States History: This class, taken after US History part 1 at another school, fulfills our graduation requirement in US History. *2 credits*

VISUAL AND PERFORMING ARTS

Art should challenge the intellectual, creative, and expressive powers of each student. The Arts program teaches a variety of creative skills to develop self-esteem through the successful completion and exhibition or performance of works of art. Six Art credits are required for graduation. Studio Art, Chorus, and Theatre courses earn one credit each trimester. Art History courses earn two credits each trimester. Unless otherwise noted, courses can be repeated for credit.

Private Music Lessons: As a service to students, the music department can arrange to provide private lessons to students. These lessons are at the students' expense and are scheduled during the students' free periods and after school. At the moment, we offer lessons in guitar, bass guitar, string bass, flute, violin, piano, viola, saxophone, and drums. We can also provide names of music teachers.

If you have any questions about Solebury School's Arts Department, please contact the appropriate department chair or administrator:

| | | |
|-----------------|-----------------|---|
| Visual Arts: | Erika Fairchild | email: efairchild@solebury.org |
| Film: | Brian Pearson | email: bpearson@solebury.org |
| Theater: | Peter Martino | email: pmartino@solebury.org |
| Music and Dance | Cathy Block | email: cblock@solebury.org |

WINTER TRIMESTER COURSES

Visual Arts

Advanced Media Arts: In this course you will utilize your prior skills to further explore the graphic design world including a more in depth exploration of artistic practices. Students will have the option to curate their own path on projects of choice. Do you want to advance your skills using Photoshop, Illustrator or InDesign? Do you want to create a brand or a logo that is recognized around the world? Do you want to further develop your portfolio for college? Projects included but not limited to branding, event promotion, 3D products and more. *Prerequisite: Media Arts I and II (or Adobe Illustrator and Photoshop) or instructor's permission. 1 credit*

Adobe Photoshop: This course is an introduction to image editing and page layout (think magazine design). In this course you will learn how to edit original images and combine images with text (no writing necessary). You will have the opportunity to explore different typefaces including the history of typography. Students will also have the opportunity to collaborate with the Digital Film class to design title pages and sequences and posters for the Soleburia Film Festival. No prior experience necessary. *This course is a prerequisite for Advanced Media Arts along Adobe Illustrator. 1 credit*

Art History: From Roman to Romanesque: Romanesque means "in the Roman Manner"; however, Romanesque also reflects influences from Byzantine, Islamic, and Early Medieval European art. The course will begin by studying Aegean and Roman art, and explore the transformations and artistic developments as different religions assert their influence and expand their territorial holdings. In addition, the students will learn the art of slide identification. There will be weekly readings and quizzes, a term paper, and students can look forward to a museum trip. *This course may be taken for Social Studies or Art credit and without regard to sequence. Global, 2 credits.*

Collage and Mixed Media: Collage is an art form that uses a wide variety of found materials combined in a single piece of artwork. In this class students will bring together pieces from magazines, natural

objects, advertising, and many other sources to create original works of art. The class will also use paint and other traditional materials to go with the collage elements. This class is a wonderful opportunity for students to explore their creativity through a class where they don't have to be "good at art." *No prerequisite 1 credit.*

Computer Aided Drawing (AutoCAD): CAD drafting is the language that architects, planners, and other designers use to communicate with one another on collaborative projects and with builders or fabrication shops. The process allows the viewing of the idea you've had in a scaled relationship, to check that the rooms, moving parts, etc. will fit together and function properly. The drafting process aids in graphic thinking and suggests new avenues of design exploration. *No Prerequisite, 1 credit.*

Intermediate Ceramics: This class is for students who would like to continue working in ceramics, but are not interested in the intensive year long course. Ceramics students will continue to develop their hand-building skills through increasingly complex projects. They will begin to develop creative concepts through working in series. Students will begin throwing on the wheel. In addition, they may have the opportunity to work with different clay bodies (types of clay), and have their work fired in alternative kilns. Students are expected to participate in all aspects of the running of the Ceramic Studio. *Prerequisite: Intro to Ceramics. 1 credit*

Intermediate Painting & Drawing: This course builds on the techniques and concepts of the foundations class. Students will work in pencil, charcoal, gouache, pastel, acrylic, and oil. This class is designed to help the student build upon their painting and drawing skills through work that is more advanced. Students will work mainly from observation on specific skills such as rendering light and shadow, creating engaging compositions, and will begin to explore how to bring their own creative voice to their work. Students must take two Intermediate level classes to be admitted to the Advanced class. *Prerequisite: Art Foundations (or Intro to Painting & Drawing). 1 Credit*

Introduction to Ceramics: Students in this introductory course will explore two basic hand-building techniques: pinching (as in pinch pots) and coil construction. With these two techniques, an artist can create almost any object that can be imagined. Each skill helps to develop muscle memory and an understanding of the properties of the clay. Timing plays a big part in ceramic work; consequently, students will learn how to plan and prepare for every project. *No prerequisite 1 credit.*

Life Drawing: This class meets on Monday from 7-9 PM and is an advanced class for mature students who wish to work on their portfolio and/or deepen their skills of working from observation. Students must have a working knowledge of contour, gesture, value, and composition, and experience working from life to accurately see form in space and translate it to the two dimensional page. Students will have the opportunity to use the human form as their subject as they advance their drawing skills. This class will broaden the students' repertoire of drawing materials, including pencil, charcoal, conte, pastel, ink, and tempera paint as they explore the creative possibility of using the materials alone and in mixed media pieces. The students will work to develop a personal style and to learn to speak knowledgeably about the work in class critique. The fall trimester class will emphasize traditional skills and drawing techniques with an emphasis on portfolio completion for seniors and beginning preparation for juniors. The winter term will move into more work with color and longer poses. In the spring trimester juniors will be encouraged to continue building their portfolios. In the spring, the work will become more experimental and involve more mixed media. *Prerequisite: Intermediate Painting and Drawing (taken twice) and permission of Art Department. 1 credit*

Photography I: In this course students will learn to use a 35mm film camera and the correct procedures for working in a darkroom. Assignments are generally designed to teach students to set shutter speeds manually and the creative use of apertures. There are no specific brief-based assignments at this level.

The object is to get the student to fully understand the operation of a camera to achieve various artistic results. They are given the artistic freedom to capture any subjects they please and from this they will learn about depth of field with regards to aperture and the capturing of movement with various shutter speeds. They will learn how to process and develop film negatives, how to produce contact sheets, and how to create a unified catalogue of images. Ultimately students will produce hand-printed images in the darkroom. *No prerequisite 1 credit.*

Photography II: In this course students will expand on their knowledge gained during their Photo II class with more emphasis on project-based briefs and complete manual use of their 35mm camera. We will expand on the various genres initially encountered in Photo 1 like documentary, portraiture, landscape and photojournalism. They will show expertise in achieving various effects using depth of field, shutter speed, and the elements of composition and also be able to explore various techniques in the darkroom, using contrast filters and toning. Also in this class students will gain an understanding the work of professional photographers and how they shoot, compose and light their subjects. We will hold class discussions in which the student will be expected to translate their concepts for fulfilling the various briefs and how they achieved their final prints. *Students may repeat this class. Prerequisite: Photography I, 1 credit*

Printmaking: Printmaking is all about working with the printing process, particularly with monotype, masking, chine-collé and block print. Students are given a few techniques to work with in the beginning of class; as they print, they learn how to apply the inks, how to hand-print, how to use the press, and how to mix the inks to achieve the effects they desire. The students also learn how to layer colors to develop depth in their work. Once students have a fairly good grasp of the basics, they are given more techniques that they are then expected to experiment with and incorporate into what they have already learned. Students will be expected to participate in group and individual critiques, submit 10 finished prints and complete self-assessments. *Students may repeat this course, there is no prerequisite. 1 credit*

Video Editing: This course is an introduction to the fundamentals of nonlinear video editing. The student will gain an understanding of video formats and concepts of video and audio compression used in recording, editing, and for final display. Cutting techniques will be explored including concepts of continuity, frame matching, using varying angles effectively, editing multi camera footage, techniques to avoid jump cuts and the use of parallel action. An introduction to sound editing will include fundamentals of mixing for film, Foley effects and processing audio to enhance the audience experience. Students will use the following software in this course: Adobe Premiere Pro, Adobe Aftereffects, Adobe Audition, Adobe Photo Shop and Adobe Media Encoder. *1 credit*

Documentary Filmmaking: Students will be introduced to documentary or nonfiction filmmaking using digital video and audio. Students will learn what defines a documentary, how to produce a documentary, prepare to go into the field to shoot a documentary, edit the film in post-production, and bring a documentary to the audience. Students can use their phone to capture video, but audio recorders and cameras are provided by the school. The goal of the class is to create a short film (around 3 minutes) that represents something students are interested in. Emphasis will be placed on storytelling as opposed to production. *1 credit*

Introduction to Film: Students are introduced to the history of film and will gain a basic understanding of the technical aspects and language of moviemaking including screenwriting, cinematography, mise-en-scène, acting, editing and sound by viewing examples from classic cinema. Areas of exploration will include editorial and narrative structure, rhythm and pace. Students are encouraged to bring in ideas and/or prior projects they would like to continue developing. *Students may repeat this course, there is no prerequisite. 1 credit*

Film Studies: In this class, we watch movies and analyze them. This course introduces students to the basics of narrative structure and different film genres, with the goal of developing the skills to recognize, describe and enjoy film as an art and entertainment form. Each unit will begin with a cinema studies style lecture on a topic followed by a screening that typifies it. *Students may repeat this course, there is no prerequisite. 1 credit*

Performing Arts

Solsingers: This is a performance class using group and harmony singing in a variety of styles. Rehearsals will also include physical exercises to enhance and improve vocal skills, breathing, coordination, and rhythmic skills. The musical selections will be prepared for performances at recitals and assemblies. Performing experiences will be enriched with additional kinds of musical understanding; including, but not limited to music theory, listening and history. Self and group assessments will be used for reflection and grading. *No Prerequisite, 1 credit*

Vocal Performance Workshop: Vocal Performance Workshop is a master class on vocal training and performance. It has an emphasis on building vocal technique, learning to constructively critique peers in a workshop setting, and performing. The musical backdrop for this class is vast, ranging from musical theatre songs to contemporary music. Students will perform as an ensemble but will also get monthly (or whatever pace suits the class) themed song assignments. For these assignments, they will perform for the class, receive feedback, and give a repeat performance after they've incorporated suggestions from the workshop. An example of a monthly theme may be duet month, where the teacher will pair two students together on a selected song. More monthly themes could be: three-part harmony, a month dedicated to a specific artist or musical, and different genres of music, like pop or folk. If any students play an instrument, they will be encouraged to accompany themselves or collaborate with classmates. For the trimester concerts, they will essentially be performing the class's greatest hits—working on group numbers throughout the class and choosing from the best themed assignments. The ensemble will perform with a live pianist and/or house band. This class serves as a good resource for anyone who loves to sing and is ideal for students who plan to audition for collegiate-level music or theatre programs. *1 credit*

Diversity and Culture Share: This is a performance class designed to celebrate the diversity of cultures represented by each person enrolled. Share a song, a poem, a short story, a dance... In this class, students will explore and exchange their personal stories and those of their ancestors through music, dance, poetry, song, and storytelling. The performance aspect of this class will be cultivated from a regular practice of sharing with each other, then in collaboration with the End of Trimester music and dance concert. Grading is based on attendance, regular participation, and the personal growth that tends to happen when we humans listen to and learn from each other's lived experiences. This class is open to all who are interested or curious. This class may also be taken for English credit. *2 credits, Global and Social Justice Concentrations*

Jazz Roots Ensemble: This ensemble plays everything from mainstream jazz to be-bop and funk. It is a performance based group, and gives feature concerts. This class offers lots of improvisational opportunities. Learn improvisational techniques, and how to build a solo. Jazz Roots also encourages original composition. Learn how pieces can be arranged to create a more interesting composition, and how to rehearse a band. Vocalists and instrumentalists are welcome. Prior music training is needed for this class. Please note this is a two trimester course. *Prerequisite: Instrumental Proficiency or better, students must have approval of instructor. Honors. 2 Credits*

Rock Band: Rock Band plays contemporary and classic rock. Come get the experience of what it feels like to be in a band. Learn about rehearsing a band, and how to make an exciting arrangement for a band.

Get into stage presence and performance skills. Rock Band is a performance based group, and gives feature concerts. Vocalists and instrumentalists are welcome. Prior music playing is expected for this class. Please note this is a two trimester course. *Prerequisite: Instrumental Proficiency or better. 2 credits*

Concert Ensemble: This ensemble is designed primarily for orchestral instrumentalists, those who play instruments of the violin family, woodwinds, brass, classical/acoustic guitar, piano, harp, etc. Others may be admitted at the director's discretion. Students will engage in a diversity of musical styles through the customized arrangements of the director. Grading is based on regular participation, demonstrated regular practice, and a final trimester concert. *1 credit*

Songwriting Workshop: This course digs deeply into the nuts and bolts of song composition. We emphasize discovering your own unique compositional voice, while developing a vocabulary and understanding of what makes other songs, and writers great. There is listening and analysis of "classic" songs, analyzing chord progression, form, lyrics and arrangement. What makes a particular song interesting, what makes it special? To become a strong writer, you must understand what makes a song work. A strong lyricist can find a new way of saying something that we've heard before. Learning to tell your story in song, and creating imagery through your lyrics is a bit like writing a very short novel, but in song. This is where language arts and music come together. The student will learn song structure: ABA, ABACBA, etc, harmonic chord structure, and what makes a great hook. We'll examine common chord progressions. Some things we'll consider: the use of time signatures, transposition within the song, interesting rhythmic structures, motifs, bridge, and arranging techniques, collaborations. All of these things, and much more are discussed, and put into action! Finally, this course is a workshop, so students will play their songs in class for each other and we'll share feedback and constructive critique. *1 credit*

STC: Advanced Scene Study: This acting class allows actors to test their performance abilities in a safe and playful environment while exploring their strengths and weaknesses under a director's eye. Students will challenge and push themselves by working on bold and exciting classic and contemporary scenes and monologues that require them to explore their depths as actors. Through text analysis, understanding subtext and makingactable choices that are supported by the given circumstances of the narrative students will explore how to apply a backstory to the characters they are creating. *1 credit*

Story Telling: Irrespective of your career path, knowing how to create a well written narrative is a great tool, essential for wannabe writers, but also vital to business people, engineers, scientists, lawyers, doctors, etc., Understanding what your story is about, defining characters, creating a story arc and structuring a coherent narrative with a distinct beginning, middle and end, and evolving a compelling style has significant application in any endeavor. The course will explore classic films and plays, as well as helping students evolve their unique voices in creating a story. *1 credit*

Lighting Design: Examine Theater Tech in a new light! This course allows students to examine reasons to light a stage, differentiate between lighting instruments and when and how to safely use and maintain them. Acquire the skills to light a stage evenly, establish moods, create special effects, properly light musical numbers, and troubleshoot many common problems in lighting design. This hands-on course can turn any student into a lighting designer, allowing them to work with our new state of the art lighting system while designing the lights for our winter musical production! *1 credit*

Ballet / Hip Hop II: Continue your journey with an advanced course in Ballet/ Hip Hop II. The class will learn more advanced combinations and steps in both classes with the class culminating in a performance at the end. *Prerequisite: Ballet / Hip Hop, 1 credit*

Swing Dance: Come on you hip cats. You know you want to join the group as we learn partner dancing from the 1920's, 30's and 40's. A partner is not required. You will be matched up in class. *1 Credit*

SPRING TRIMESTER COURSES

Visual Arts

Advanced Media Arts: In this course you will utilize your prior skills to further explore the graphic design world including a more in depth exploration of artistic practices. Students will have the option to curate their own path on projects of choice. Do you want to advance your skills using Photoshop, Illustrator or InDesign? Do you want to create a brand or a logo that is recognized around the world? Do you want to further develop your portfolio for college? Projects included but not limited to branding, event promotion, 3D products and more. *Prerequisite: Media Arts I and II (or Adobe Illustrator and Photoshop) or instructor's permission. 1 credit*

Adobe Illustrator: This course is an introduction to the world of design and will cover a broad range of visual artistic expressions. Students will look at many examples of design such as Postmodernism, Mid century Modern, Bauhaus, De Stijl and Constructivism, to name a few, and their influences. Expect to come to class with an open mind and be prepared for a challenge. Students will learn how to use Adobe Illustrator, a vector drawing program. This class will put your creative problem solving skills to the test. No prior experience necessary. *This course is a prerequisite for Advanced Media Arts along with Adobe Photoshop. 1 credit*

Art Foundations: This course introduces beginning students to the basics of painting and drawing with a focus on the Elements of Design. Students will learn to work in pencil, charcoal, gouache, pastel, acrylic, and oil paint. They will start with learning how to draw basic shapes, progress to learning how to use light and shadow to create space and form, and learn how to create engaging compositions. These concepts and techniques will be taught through the lens of the 2 dimensional design elements of line, shape, size, space, color, texture, and value. The class is intended to prepare students for the Intermediate class and is a prerequisite to that class. *No Prerequisite, 1 credit*

Art History: India, China and Japan: We will begin by studying the arts of India prior to 1200 and follow shared religious threads that weave through China and into Japan. Students will compare and contrast the various styles and interpretations of like themes and how they are reflected in the art and architecture from country to country. The art of Asia is rich with centuries of cultural history which continues to influence modern day Asian artists. In addition, the students will learn the art of slide identification. Students will have weekly readings and quizzes, a term paper, and can look forward to a museum trip. **Global, 2 credits**

Intermediate Ceramics: This class is for students who would like to continue working in ceramics, but are not interested in the intensive year long course. Ceramics students will continue to develop their hand-building skills through increasingly complex projects. They will begin to develop creative concepts through working in series. Students will begin throwing on the wheel. In addition, they may have the opportunity to work with different clay bodies (types of clay), and have their work fired in alternative kilns. Students are expected to participate in all aspects of the running of the Ceramic Studio. *Prerequisite: Intro to Ceramics. 1 credit*

Intermediate Painting & Drawing: This course builds on the techniques and concepts of the foundations class. Students will work in pencil, charcoal, gouache, pastel, acrylic, and oil. This class is designed to help the student build upon their painting and drawing skills through work that is more advanced. Students will work mainly from observation on specific skills such as rendering light and shadow, creating engaging compositions, and will begin to explore how to bring their own creative voice to their work. Students must take two Intermediate level classes to be admitted to the Advanced class. *Prerequisite: Art Foundations (or Intro to Painting & Drawing). 1 Credit*

Life Drawing: This class meets on Monday from 7-9 PM and is an advanced class for mature students who wish to work on their portfolio and/or deepen their skills of working from observation. Students must have a working knowledge of contour, gesture, value, and composition, and experience working from life to accurately see form in space and translate it to the two dimensional page. Students will have the opportunity to use the human form as their subject as they advance their drawing skills. This class will broaden the students' repertoire of drawing materials, including pencil, charcoal, conte, pastel, ink, and tempera paint as they explore the creative possibility of using the materials alone and in mixed media pieces. The students will work to develop a personal style and to learn to speak knowledgeably about the work in class critique. The fall trimester class will emphasize traditional skills and drawing techniques with an emphasis on portfolio completion for seniors and beginning preparation for juniors. The winter term will move into more work with color and longer poses. In the spring trimester juniors will be encouraged to continue building their portfolios. In the spring, the work will become more experimental and involve more mixed media. *Prerequisite: Intermediate Painting and Drawing (taken twice) and permission of Art Department. 1 credit*

Introduction to Digital Photography: Within this course we will be covering the basics of how to use a digital camera on a manual setting to achieve images of highest quality and strong composition. Students will be given class assigned briefs to complete in their own time and be expected to meet deadlines and discuss their ideas and concepts within class discussions and with written papers. Students will also receive an introduction to the newest version of Adobe Photoshop and Lightroom and understand the process of editing and manipulating our images to a high standard within these programs. *Students may repeat this class. Prerequisites: Photography I and II. 1 credit.*

Photography II: In this course students will expand on their knowledge gained during their Photo II class with more emphasis on project-based briefs and complete manual use of their 35mm camera. We will expand on the various genres initially encountered in Photo 1 like documentary, portraiture, landscape and photojournalism. They will show expertise in achieving various effects using depth of field, shutter speed, and the elements of composition and also be able to explore various techniques in the darkroom, using contrast filters and toning. Also in this class students will gain an understanding the work of professional photographers and how they shoot, compose and light their subjects. We will hold class discussions in which the student will be expected to translate their concepts for fulfilling the various briefs and how they achieved their final prints. *Students may repeat this class. Prerequisite: Photography I, 1 credit*

Printmaking: Printmaking is all about working with the printing process, particularly with monotype, masking, chine-collé and block print. Students are given a few techniques to work with in the beginning of class; as they print, they learn how to apply the inks, how to hand-print, how to use the press, and how to mix the inks to achieve the effects they desire. The students also learn how to layer colors to develop depth in their work. Once students have a fairly good grasp of the basics, they are given more techniques that they are then expected to experiment with and incorporate into what they have already learned. Students will be expected to participate in group and individual critiques, submit 10 finished prints and complete self-assessments. *Students may repeat this course, there is no prerequisite. 1 credit*

Video Editing: This course is an introduction to the fundamentals of nonlinear video editing. The student will gain an understanding of video formats and concepts of video and audio compression used in recording, editing, and for final display. Cutting techniques will be explored including concepts of continuity, frame matching, using varying angles effectively, editing multi camera footage, techniques to avoid jump cuts and the use of parallel action. An introduction to sound editing will include fundamentals of mixing for film, Foley effects and processing audio to enhance the audience experience. Students will use the following software in this course: Adobe Premiere Pro, Adobe Aftereffects, Adobe Audition, Adobe Photo Shop and Adobe Media Encoder. *1 credit*

Audio Production: If you've ever been to a concert or watched an event broadcast over the TV or internet and wondered how the audio was produced, or you've ever wanted to learn how to get great sound for your band, movie or other event, this is the course for you. Learn how to capture and project great sound for either live productions or internet live streams or a prerecord. Work with different types of microphones, mixers, equalizers and compressors. Also learn the audio software contained in Adobe Premiere and Audition. Also learn the basics of room acoustics and why the dreaded feedback happens. *1 credit.*

Introduction to Film 2: Students are introduced to the history of film and will gain a basic understanding of the technical aspects and language of moviemaking including screenwriting, cinematography, mise-en-scène, acting, editing and sound by viewing examples from classic cinema. Areas of exploration will include editorial and narrative structure, rhythm and pace. Students are encouraged to bring in ideas and/or prior projects they would like to continue developing. *Students may repeat this course, there is no prerequisite. 1 credit*

Film Studies: In this class, we watch movies and analyze them. This course introduces students to the basics of narrative structure and different film genres, with the goal of developing the skills to recognize, describe and enjoy film as an art and entertainment form. Each unit will begin with a cinema studies style lecture on a topic followed by a screening that typifies it. *Students may repeat this course, there is no prerequisite. 1 credit*

Performing Arts

Concert Ensemble: This ensemble is designed primarily for orchestral instrumentalists, those who play instruments of the violin family, woodwinds, brass, classical/acoustic guitar, piano, harp, etc. Others may be admitted at the director's discretion. Students will engage in a diversity of musical styles through the customized arrangements of the director. Grading is based on regular participation, demonstrated regular practice, and a final trimester concert. *1 credit*

Solsingers: This is a performance class using group and harmony singing in a variety of styles. Rehearsals will also include physical exercises to enhance and improve vocal skills, breathing, coordination, and rhythmic skills. The musical selections will be prepared for performances at recitals and assemblies. Performing experiences will be enriched with additional kinds of musical understanding; including, but not limited to music theory, listening and history. Self and group assessments will be used for reflection and grading. *No Prerequisite, 1 credit*

Vocal Performance Workshop: Vocal Performance Workshop is a master class on vocal training and performance. It has an emphasis on building vocal technique, learning to constructively critique peers in a workshop setting, and performing. The musical backdrop for this class is vast, ranging from musical theatre songs to contemporary music. Students will perform as an ensemble but will also get monthly (or whatever pace suits the class) themed song assignments. For these assignments, they will perform for the class, receive feedback, and give a repeat performance after they've incorporated suggestions from the workshop. An example of a monthly theme may be duet month, where the teacher will pair two students together on a selected song. More monthly themes could be: three-part harmony, a month dedicated to a specific artist or musical, and different genres of music, like pop or folk. If any students play an instrument, they will be encouraged to accompany themselves or collaborate with classmates. For the trimester concerts, they will essentially be performing the class's greatest hits—working on group numbers throughout the class and choosing from the best themed assignments. The ensemble will perform with a live pianist and/or house band. This class serves as a good resource for anyone who loves to sing and is ideal for students who plan to audition for collegiate-level music or theatre programs. *1 credit*

Tap Dance: This American dance form allows performers to make percussion noises with their feet to rhythms. Students will learn basic tap steps and how to put them in combinations with one another. The

class will research tap dancers from the beginning to now and also tap companies. This is a performance based class and the students will be dancing at the spring concert. *1 credit*

Metalworking: Metalworking requires the student to provide one or more metal sculptures of their design using the tools and processes of cutting, sawing, drilling, welding, brazing, and soldering. Miscellaneous metal pieces are provided for the students to select or modify to their taste. For ironwork, stick welding and MIG welding are employed along with oxyacetylene cutting, use of the chop saw and portable band saw. For lighter metalwork, brazing and soldering are explained. Designs are encouraged to honor balance and interest while not being totally symmetrical. Two judges, at the end of the course, are invited to view the student work; one is an artist, for aesthetic achievement, the other an experienced metalworker from the area to judge excellence of welding and brazing technique and structural aspects. All consumables (oxygen, acetylene, CO2, etc) will be provided as is safety equipment such as helmets, aprons, and brazing goggles. The use of safety equipment is required. *1 credit*

American Pop Music: Who do you listen to? From Post Malone to Beyonce, Ariana Grande to Dua Lipa, Adele to the Weeknd—what's your jam? Starting from the minstrels of the 1800s and traveling right up to rap, we will take an illuminating journey through the ages. Listen to some great music and learn the stories that made the music you love. This is the ever-evolving and profoundly complex story of American Pop music. It might just blow your mind. *1 credit, counts towards Social Justice Concentration*

Story Telling: Irrespective of your career path, knowing how to create a well written narrative is a great tool, essential for wannabe writers, but also vital to business people, engineers, scientists, lawyers, doctors, etc., Understanding what your story is about, defining characters, creating a story arc and structuring a coherent narrative with a distinct beginning, middle and end, and evolving a compelling style has significant application in any endeavor. The course will explore classic films and plays, as well as helping students evolve their unique voices in creating a story. *1 credit*

STC: Contemporary Musical Theater: For every Hadda Hadda, there is a Carrie or a Chess or a Diana: The Musical. What makes one show a huge success while others can't seem to make it past opening night? In this theater appreciation class, we will take a look into the last few decades of Musical Theater and see just how the landscape has evolved. We will listen to, watch, and discuss various shows that have attained varying degrees of success and try to figure out what went right (or wrong) and why. As we learn about these works we will put them head to head in an ultimate rank down of contemporary musical theater to see which show we think is the biggest "hit" of them all. This class is perfect for Theater lovers who don't necessarily like to get on stage! *1 credit*

COMPUTERS

WINTER TRIMESTER COURSES

Advanced Media Arts: In this course students will continue the exploration of graphic design with an emphasis on the principles of design. Students will learn about the history of typography as well as some of the historical movements in the field of graphics. The main emphasis of this course will be the exploration of problems and possible solutions that integrate the use of dynamic composition; combining images and typography (layering), photography and space (transparency) as effective ways to solve visual problems. Topics of study (which are subject to change) include fundamentals of design (line, shape, value, texture, color, form), graphic design - the new basics (figure/ground, framing, hierarchy, layers, transparency) as well as typography combined with imagery to create a visual story in a narrative form. *Prerequisite: Media Arts I or instructor's permission. 1 credits*

Computer Programming: This course offers an introduction to computer science covering the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem-solving skills. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. In this course, you will write and run JavaScript programs in the browser using the CodeHS editor. This course is designed for beginners and does not require any computer programming experience. The course is intended to be highly visual, dynamic, and interactive for new coders. *1 credit*

Game Design in Unity: This course teaches the fundamentals of designing a game using Unity as the game engine, run through the CodeHS platform. The intent of this course is to prepare high school students with the industry-related skills needed for the workplace and higher learning environments. By the end of this course, students will understand the design planning process, be knowledgeable of industry-related careers, and be able to navigate the Unity environment in order to create 3D games. *1 credit*

Adobe Photoshop: This course is an introduction to image editing and page layout (think magazine design). In this course you will learn how to edit original images and combine images with text (no writing necessary). You will have the opportunity to explore different typefaces including the history of typography. Students will also have the opportunity to collaborate with the Digital Film class to design title pages and sequences and posters for the Soleburia Film Festival. No prior experience necessary. *This course is a prerequisite for Advanced Media Arts along Adobe Illustrator. 1 credit*

Computer Aided Drawing (AutoCAD): CAD drafting is the language that architects, planners, and other designers use to communicate with one another on collaborative projects and with builders or fabrication shops. The process allows the viewing of the idea you've had in a scaled relationship, to check that the rooms, moving parts, etc. will fit together and function properly. The drafting process aids in graphic thinking and suggests new avenues of design exploration. *No Prerequisite, 1 credit.*

Video Editing: This course is an introduction to the fundamentals of nonlinear video editing. The student will gain an understanding of video formats and concepts of video and audio compression used in recording, editing, and for final display. Cutting techniques will be explored including concepts of continuity, frame matching, using varying angles effectively, editing multi camera footage, techniques to avoid jump cuts and the use of parallel action. An introduction to sound editing will include fundamentals of mixing for film, Foley effects and processing audio to enhance the audience experience. Students will use the following software in this course: Adobe Premiere Pro, Adobe Aftereffects, Adobe Audition, Adobe Photo Shop and Adobe Media Encoder. *1 credit*

SPRING TRIMESTER COURSES

Advanced Media Arts: In this course students will continue the exploration of graphic design with an emphasis on the principles of design. Students will learn about the history of typography as well as some of the historical movements in the field of graphics. The main emphasis of this course will be the exploration of problems and possible solutions that integrate the use of dynamic composition; combining images and typography (layering), photography and space (transparency) as effective ways to solve visual problems. Topics of study (which are subject to change) include fundamentals of design (line, shape, value, texture, color, form), graphic design - the new basics (figure/ground, framing, hierarchy, layers, transparency) as well as typography combined with imagery to create a visual story in a narrative form. *Prerequisite: Media Arts I or instructor's permission. 1 credits*

Computer Programming: This course offers an introduction to computer science covering the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem-solving skills. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. In this course, you will write and run JavaScript programs in the browser using the CodeHS editor. This course is designed for beginners and does not require any computer programming experience. The course is intended to be highly visual, dynamic, and interactive for new coders. *1 credit*

Game Design in Unity: This course teaches the fundamentals of designing a game using Unity as the game engine, run through the CodeHS platform. The intent of this course is to prepare high school students with the industry-related skills needed for the workplace and higher learning environments. By the end of this course, students will understand the design planning process, be knowledgeable of industry-related careers, and be able to navigate the Unity environment in order to create 3D games. *1 credit*

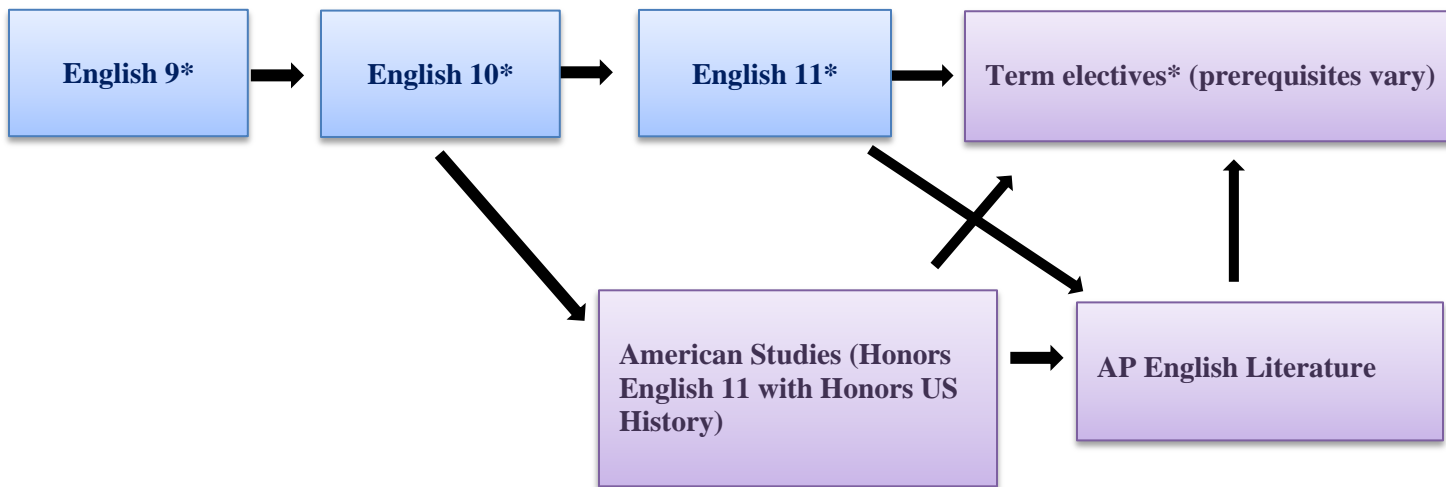
Adobe Illustrator: This course is an introduction to the world of design and will cover a broad range of visual artistic expressions. Students will look at many examples of design such as Postmodernism, Mid century Modern, Bauhaus, De Stijl and Constructivism, to name a few, and their influences. Expect to come to class with an open mind and be prepared for a challenge. Students will learn how to use Adobe Illustrator, a vector drawing program. This class will put your creative problem solving skills to the test. No prior experience necessary. *This course is a prerequisite for Advanced Media Arts along with Adobe Photoshop. 1 credit*

Video Editing: This course is an introduction to the fundamentals of nonlinear video editing. The student will gain an understanding of video formats and concepts of video and audio compression used in recording, editing, and for final display. Cutting techniques will be explored including concepts of continuity, frame matching, using varying angles effectively, editing multi camera footage, techniques to avoid jump cuts and the use of parallel action. An introduction to sound editing will include fundamentals of mixing for film, Foley effects and processing audio to enhance the audience experience. Students will use the following software in this course: Adobe Premiere Pro, Adobe Aftereffects, Adobe Audition, Adobe Photo Shop and Adobe Media Encoder. *1 credit*

Appendix: Typical Course Sequences

These diagrams are meant to show some typical course sequences but many other variations are possible. Students are encouraged to talk with their advisor, the department heads, and the Director of Studies to chart their academic paths through Solebury.

English Department Course Sequencing



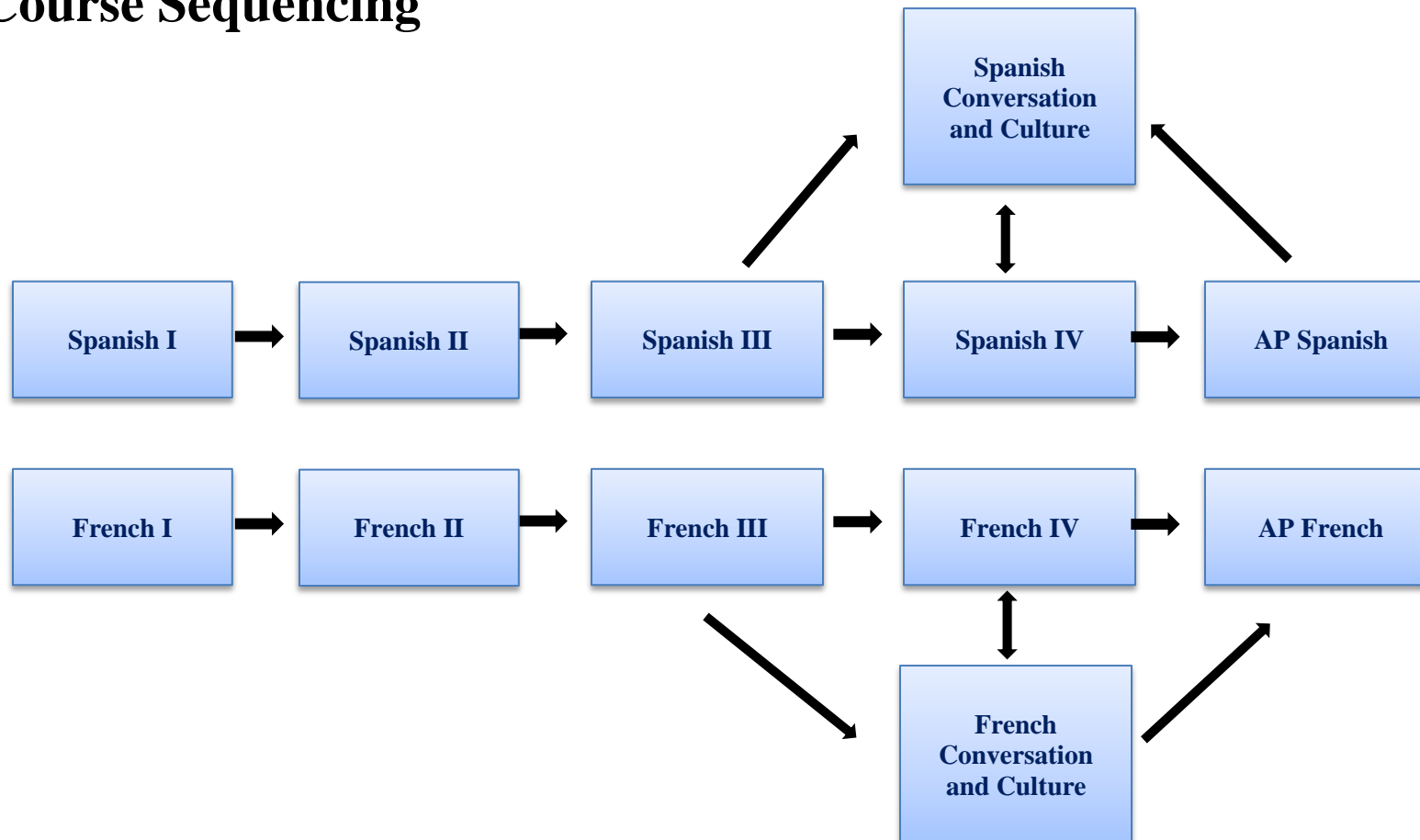
Courses marked with * include Honors and non-Honors options.

Graduation requirement: 24 credits of English (at least one English course every term)

Learning Skills English fulfills the English graduation requirement.

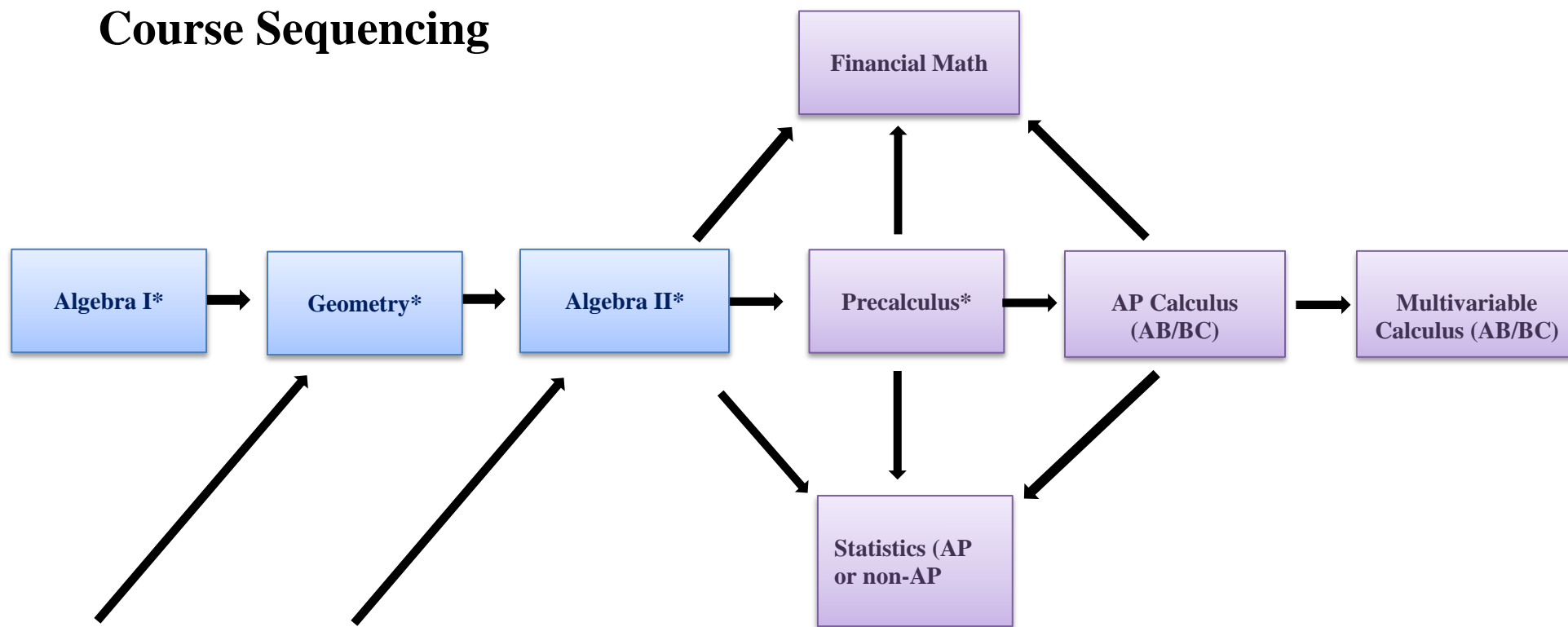
World Language Department

Course Sequencing



Graduation requirement: Completion of Level III of a language OR two consecutive years of two different languages. In extraordinary circumstances, this requirement may be modified or waived.

Math Department Course Sequencing



Math Support Program Course Sequencing

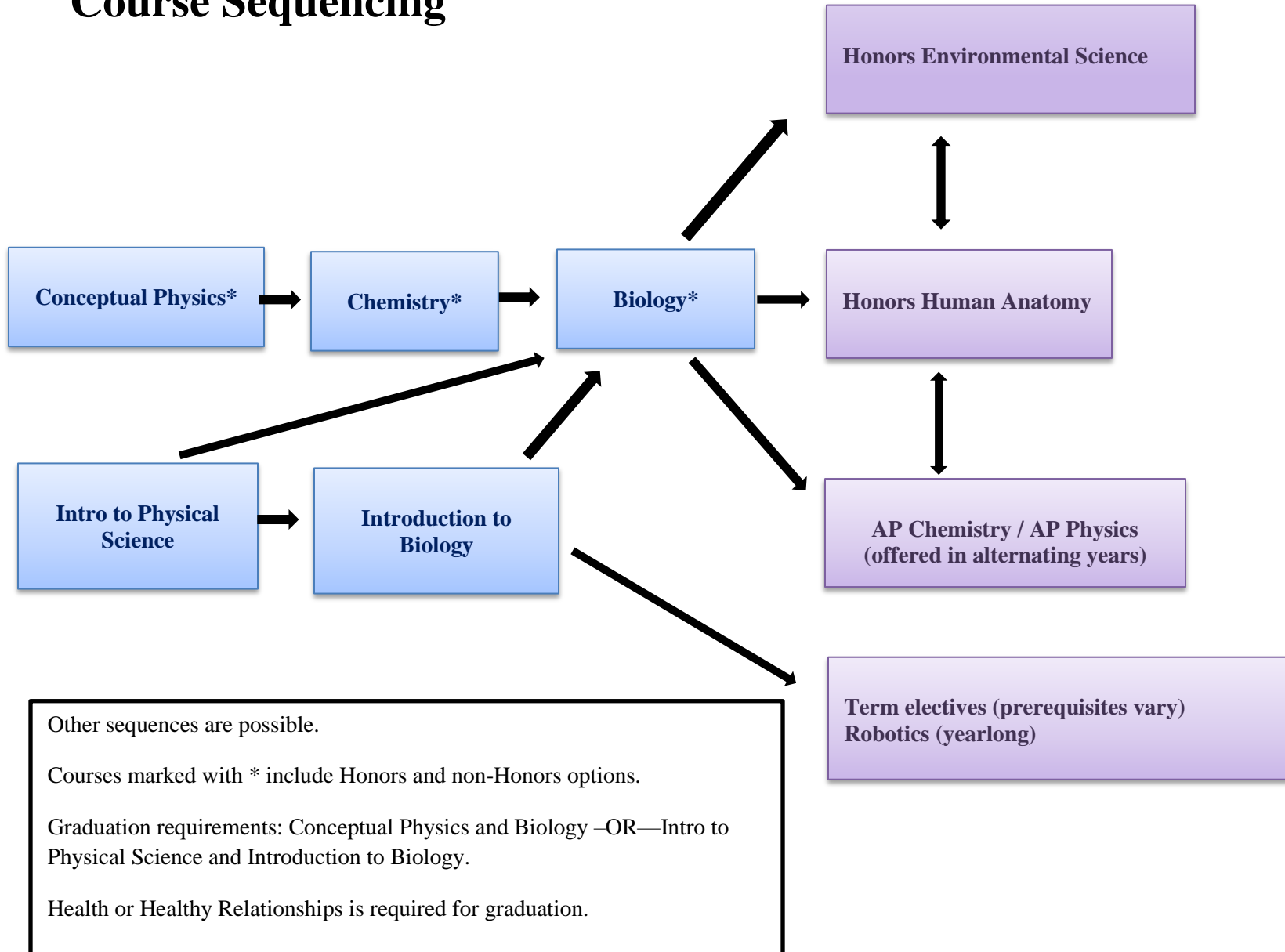
Other sequences are possible.

Courses marked with * include Honors and non-Honors options.

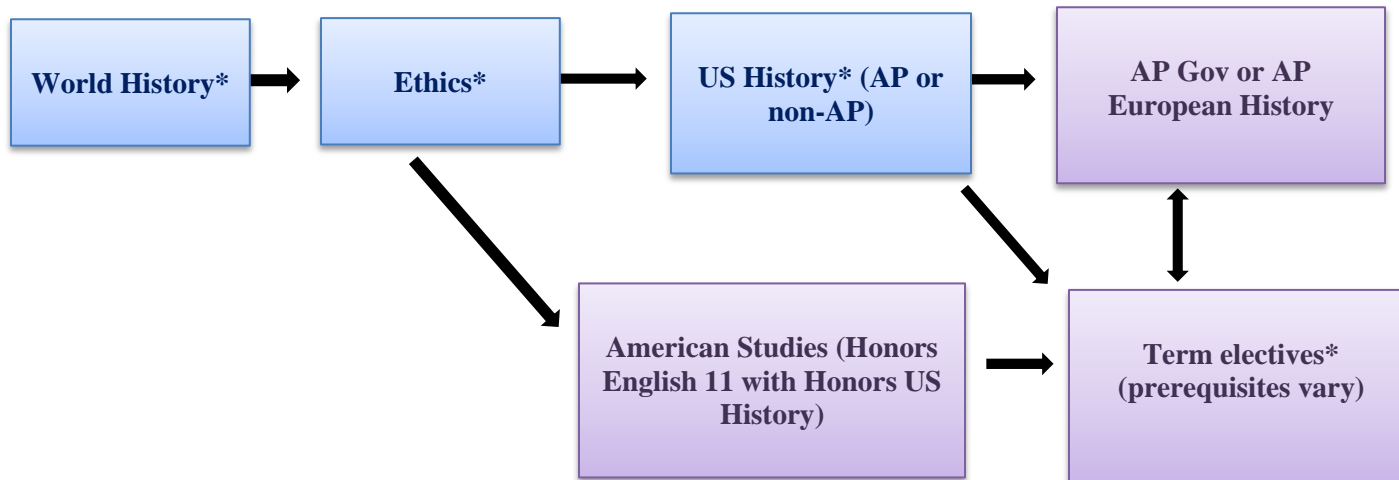
**Students exiting Alg Concepts II have the same choices as those leaving Algebra II

Graduation requirement is 18 total credits (three yearlong courses)

Science Department Course Sequencing



Social Studies Department Course Sequencing



Courses marked with * include Honors and non-Honors options.

Graduation requirement: 12 credits, US History is required