EXETER SUMMER

UPPER SCHOOL

(STUDENTS CURRENTLY IN GRADES 9 – 12)

2020 COURSE CATALOG

PHILLIPS EXETER ACADEMY

Exeter Summer

2020 UPPER SCHOOL COURSE CATALOG

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UPPER SCHOOL

UPPER SCHOOL boarding students are **required to take three courses.** Day students may take one, two, or three courses. For an additional $995 fee, students may also sign up for the optional SAT Preparation course. The SAT Prep course **does not count towards the three-course load requirement** for UPPER SCHOOL boarders. **UPPER SCHOOL day students enrolling in the SAT Prep course must also enroll in at least one other academic course.**

All UPPER SCHOOL boarding students participate in a sport for at least one hour four afternoons per week (Monday, Tuesday, Thursday and Friday) between 2:00pm and 4:00pm. **Note: Physical Education is optional for Day students.** All students may, for a fee, enroll in private music lessons, the SAT Prep course, or replace the two sessions of sports with Exeter Crew Club, Exeter Soccer Club, or Exeter Volleyball Club. UPPER SCHOOL students may also participate in musical or choral groups.

DESIGNING YOUR OWN CURRICULUM

As an UPPER SCHOOL student, you have the freedom to design your own academic curriculum. You may enroll in any three of the more than 100 courses offered by Exeter Summer. Most students take courses in three separate disciplines; we strongly encourage you to include at least one course that emphasizes Harkness (our word for seminar) discussion.

Exeter Summer regularly reviews and revises course offerings to meet the changing interests and needs of our students. Course offerings give students a wide range of academic choices. **You should give careful thought to selecting courses and alternates as it is difficult to make changes once the program has begun.** Please review the course descriptions and levels of proficiency required to ensure that the courses you select are appropriate. On the application, select your courses in order of preference, along with three alternate choices.

IMPORTANT: Exeter Summer reserves the right to cancel courses for which there is insufficient enrollment and to limit the size of classes where necessary. It is essential that you list alternate courses, not different formats of the same course. If a class is canceled due to insufficient enrollment, students will be reassigned to their alternate choices and notified of these changes.

The Charles J. Hamm '55 Leadership Program This special program is an alternate option for students. It consists of two courses: *Leadership & Society* and *The Practical Leadership Seminar*. You choose a third course from any other subject in the "C" or "D" format. Students interested in applying for the leadership program should indicate so on the application and pick their third class, along with three alternate choices as admission to this program is limited and selective.

COURSE AND FORMAT SELECTION

In order to avoid conflicts, pay attention to the format(s) in which a course is offered, indicated after the course title. The format is the meeting time for a given course. Students may not sign up for two courses that meet during the same format.

IMPORTANT: **Choose your alternate courses in the order of preference paying close attention to the format(s). The alternate courses should not be the same as your preferred course selections.**

When selecting courses, be aware that there are two types of courses:

1. **Single Period Course**: Most classes are single period courses that meet five times per week (i.e., A, B, C, or D formats).

2. **Extended Period Course:** A few classes are extended period courses that meet three times per week in two double periods and one 90-minute session (i.e., A/B MWF or C/D TTS).

PREREQUISITES AND GRADE LEVELS

Prerequisites listed in the course description enable students to choose the appropriate level of a course. In addition, each course lists the appropriate grade level(s) which the student should be entering. In the final assigning of students to courses, proficiency rather than grade level alone is the essential consideration. Adjustments based upon academic ability may be made during the first few days of classes.

COURSE CHANGES

Prior to the start of the session, course change requests are expected to be kept to a minimum. Reassignment into another course is based upon availability. Requests for course changes must be made by a parent/guardian via email to Exeter Summer before May 1. **The Exeter Summer Office will not accept requests for course changes by phone.** Requests for course changes after the session has begun must be teacher-initiated and receive the approval of the Director. **No course changes will be made after the first Wednesday of the session.**

DAILY SCHEDULE SAMPLE FOR UPPER SCHOOL

<table>
<tr><th>Sunday</th><th>Monday</th><th>Tuesday</th><th>Wednesday</th><th>Thursday</th><th>Friday</th><th>Saturday</th></tr>
<tr><td rowspan="6">Brunch
9:00 - 12:30</td><td>Breakfast
6:45 - 8:45</td><td>Breakfast
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8:30 - 9:20</td><td>A-Format
8:30 - 9:20</td><td rowspan="2">B-Format
8:30 - 10:00</td></tr>
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9:25 - 10:15</td><td>B-Format
9:25 - 10:15</td><td>B-Format
9:25 - 10:15</td><td>B-Format
9:25 - 10:15</td></tr>
<tr><td>Assembly/
Meetings
10:20 - 11:05</td><td rowspan="2">Snack Time
10:20 - 11:05</td><td rowspan="2">C-Format
10:05 - 11:35</td><td rowspan="2">Snack Time
10:20 - 11:05</td><td>Residential
Life
10:20 - 11:05</td><td rowspan="2">D-Format
10:05 - 11:35</td></tr>
<tr><td>C-Format
11:10 - 12:00</td><td>C-Format
11:10 - 12:00</td><td>C-Format
11:10 - 12:00</td></tr>
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12:05 - 12:55</td><td>D-Format
12:05 - 12:55</td><td rowspan="2">Lunch</td><td>D-Format
12:05 - 12:55</td><td>D-Format
12:05 - 12:55</td><td rowspan="2">Lunch</td></tr>
<tr><td>PE
2:00 - 4:00</td><td>PE
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2:00 - 4:00</td></tr>
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5:00 - 7:00</td><td>Dinner times
may vary</td></tr>
<tr><td>Dorm Check-in
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9:00</td><td>Dorm Check-in
11:00</td></tr>
</table>

Lunch is served Monday – Friday from 11:30am – 2:00pm

UPPER SCHOOL

Course Listing by Format

FORMAT A

THE ARTS

Theater
Introduction to Acting

Music
Songwriting and Music Recording

Visual Art
Clothing Design and Construction
Computer Animation
Digital Photography
Oil Painting (A/B TTS)
3D Computer Design

COMPUTER SCIENCE

Introduction to Computer Science
Game Programming

ENGLISH & WRITING SKILLS

Creative Writing
Debate & Argumentation
Grasping Grammar
Great Books/Great Reading
Journalism
Writing the College Admissions Essay

ENGLISH FOR NON-NATIVE SPEAKERS

Becoming a Confident Writer
Creative Writing for Non-Native Speakers
Grasping Grammar for Non-Native Speakers
USA: Exploring American Culture

HEALTH AND HUMAN DEVELOPMENT

The Science of Happiness

HISTORY AND SOCIAL SCIENCES

History
Freedom and Justice for All?
U.S. History

Humanities
Philosophy and Everyday Life
The Moral Life

Psychology
His/Her/Self
Introduction to Psychology

Social Sciences
Economics and Business Principles
Global Economics

LANGUAGES AND CULTURE

Beginning French
Beginning Spanish
Classical Mythology

MATHEMATICS

Environmental Issues: What do the Numbers Tell Us?
Problem-Solving in Algebra
Problem-Solving in Intermediate Precalculus
Introductory Problem-Solving in Matrix Algebra

SCIENCE

Introduction to Physics
Current Topics in Environmental Science
Marine Biology
Genetic Engineering
Relativity and Quantum Physics

FORMAT B

THE ARTS

Film
Video Production

Theater
Introduction to Theater Performance

Visual Art
Digital Photography
2D Design and Composition
Oil Painting (A/B TTS)
3D Computer Design

COMPUTER SCIENCE

Game Programming

ENGLISH & WRITING SKILLS

The Craft of the Essay
Creative Writing
Journalism
Writing the College Admissions Essay
Writing Process Workshop

ENGLISH FOR NON-NATIVE SPEAKERS

Becoming a Confident Writer
Grasping Grammar for Non-Native Speakers
USA: Exploring American Culture

HISTORY AND SOCIAL SCIENCES

History
Global Security

Humanities
The Media and Society
Belief and Doubt

Psychology
Introduction to Psychology
The Journey Inward

Social Sciences
Basic Principles of Criminal Justice
Economics and Business Principles
Politics: Power and Responsibility

LANGUAGES AND CULTURE

Intermediate Conversational French
Introduction to Latin

MATHEMATICS

Problem-Solving in Geometry
Cryptography
Adventures in Problem-Solving
Problem-Solving in Intermediate Precalculus

SCIENCE

Introduction to Biology
Introduction to Chemistry
Nuclear Science
Human Physiology and Anatomy
Observational Astronomy
Sports Science
Bioethics

FORMAT C

THE ARTS

Film
Introduction to Film/Media Studies

Theater
Speechmaking

Music
Jazz Improvisation
Songwriting and Music Recording

Visual Art
Architecture
Ceramics (C/D MWF)
Clothing Design and Construction
Drawing: Learning to Look

COMPUTER SCIENCE

Introduction to Computer Science

ENGLISH & WRITING SKILLS

Creative Writing
Debate & Argumentation
Great Books/Great Reading
International Crime Fiction
Writing Process Workshop

ENGLISH FOR NON-NATIVE SPEAKERS

Becoming a Confident Writer
Creative Writing for Non-Native Speakers
USA: Exploring American Culture

HEALTH AND HUMAN DEVELOPMENT

Euphoria: The Human Pursuit

HISTORY AND SOCIAL SCIENCES

Humanities
Global Justice

Psychology
Introduction to Psychology
Social Psychology

Social Sciences
Economics and Business Principles
Global Economics
Leadership and Society
Social Ethics

LANGUAGES AND CULTURE

Beginning Chinese
Beginning German
Beginning Italian
Beginning Korean
Spanish Grammar Review

MATHEMATICS

Environmental Issues: What do the Numbers Tell Us?
Problem-Solving in Algebra
Introductory Problem-Solving in Trigonometry
Advanced Problem-Solving in Trigonometry
Introduction to Discrete Math
Problem-Solving in Intermediate Precalculus

SCIENCE

Introduction to Physics
Advanced Biology
Advanced Chemistry
Human Physiology and Anatomy
Modern Astrophysics
Genetic Engineering

FORMAT D

THE ARTS

Dance
Dance Workshop

Film
Video Production

Theater
Introduction to Theater Performance

Music
Chamber Music

Visual Art
Architecture
Ceramics (C/D MWF)

COMPUTER SCIENCE

Game Programming

ENGLISH & WRITING SKILLS

AP Level Preparation
The Craft of the Essay
Creative Writing
Literature of American Politics
Writing Process Workshop

ENGLISH FOR NON-NATIVE SPEAKERS

Becoming a Confident Writer
Grasping Grammar for Non-Native Speakers

HISTORY AND SOCIAL SCIENCES

History
Modern Europe (1945-Present)
Understanding War and Peace

Humanities
The Art of Being Human
The Media and Society
Philosophy and Everyday Life
Understanding Arguments

Psychology
Introduction to Psychology
Neuropsychology

Social Sciences
Basic Principles of Criminal Justice
Leadership for a Better World
Leadership in Athletics
The United Nations: Global Community

LANGUAGES AND CULTURE

Beginning French
Intermediate Conversational Chinese
Intermediate Conversational Spanish

MATHEMATICS

Problem-Solving in Geometry
Problem-Solving: Fun with Probability
Statistics Through Simulation
Problem-Solving in Intermediate Precalculus
Problem-Solving in Advanced Precalculus
Problem-Solving in Calculus
Problem-Solving in Advanced Calculus

SCIENCE

Introduction to Chemistry
Introduction to Electronics
Sports Science
Exploring Careers in Animal Science
Transgenics

The Arts: Dance, Film, Theater, Music, and Visual Art

The Arts Department offers a range of artistic experiences in the studio, classroom, and rehearsal space designed to challenge students and open a new world of creative possibilities. Arts Week, the final week of the program, features exhibitions, stage, and assembly performances from students.

Dance

Dance Workshop

SDD-DAN Format D | All Grades (two levels: introduction and intermediate/advanced)

Through daily technique classes and rehearsals, students will learn movement vocabulary and explore several American dance genres: modern, jazz, musical theater, and hip-hop. Instructors pair technique classes with dance history. The Exeter Summer Dance Company prepares for a culminating mixed-repertoire performance in the Goel Center for Theater and Dance during the final week of the session. Students will perform original dance pieces choreographed by instructors, and will have the opportunity to dance in their own and/or peer choreography. Through this course, students develop a deeper appreciation for dance and gain confidence both on and off stage. Students of all experience levels are welcome and will be placed in either an introductory or intermediate/advanced class by the teachers on the first day. Both classes will perform together in the dance company performance at the end of the session. ***Please Note:*** **Due to the required practice and rehearsal time, students enrolled in this class will have dance rehearsal as their afternoon sport**.

Film

Introduction to Film/Media Studies

FIL-IFM Format C | All Grades

In this course students will enter the world of cinema through theory, criticism, and analysis. A survey of the films that shaped (and continue to shape) generations, genres, and national histories will be reviewed. This class will introduce students to the different techniques of cinematography, editing, lighting, and sound that have been used and discuss their artistic significance and influence. Simultaneously, this class will investigate the diverse critical approaches for interpreting film and provide close examinations of directors, cinematographers, screenwriters, and production companies. Students will learn to use film to develop their writing and argumentation skills, prose, and critical thinking abilities.

Video Production

FIL-VID Format B and D | All Grades

Are you curious about what it takes to make a documentary film? In this introductory class you will learn the fundamentals of innovative video making. You and your classmates will produce a short creative video featuring the campus and your fellow students. Some of the skills learned will include using a video camera, shot composition, recording sound, and editing. Students will shoot the activities of their fellow students in class as well as during leisure time, assemblies, field trips, and athletics. The final product will be an entirely student-produced overview of the summer program in documentary format. Students of all experience levels are welcome, although it is an introductory level course.

Theater

Introduction to Acting

SDD-IAC Format A | All Grades

This course is a creative introduction to the acting process. You will engage in both collaborative and individual exercises in concentration, breath-release, and physical/vocal improvisation. Students will gain a familiarity in projecting the voice, ensemble building, and building on-stage confidence in the course. The course will build on out-of-class assignments including monologue memorization and scene rehearsals. You will be assigned and work either a classical or contemporary monologue in class. In addition to this expectation, you will be assigned and work one scene, contemporary or classical. Under the instructor's direction, a final in-class scene performance will bring the wide range of acting elements into synthesis. Each student leaves with a well-rehearsed monologue suitable for college or professional theater auditions.

Introduction to Theater Performance

SDD-ITP Format B and D | All Grades

This course combines fundamental elements of collective creation, acting and stagecraft. As a member of this class, you will be part of the ensemble company of actors and techies who will produce the UPPER SCHOOL drama production. The ensemble will create an original work of theater through a series of self and universal explorations. Students will develop techniques in theme and scene study along with physical and vocal expression in the exploration process of devising theater; creating and developing every aspect of the final show. The ensemble members will gain hands-on introduction to stagecraft which will lead them into the principles of set design and construction, lighting, sound, and costuming. Students in this course will develop confidence both on and back stage, hone strong public speaking skills, and create a plethora of material that can be used for college and professional artistic portfolios and resumes.

Speechmaking

SDD-SPE Format C | All Grades

Do you want to learn how to prepare and deliver speeches in formal and informal environments? This class will provide you with plenty of experience in both respects. We will stress the mastery of basics such as poise, use of gestures, vocal emphasis, appropriate volume, adequate eye contact, and ongoing awareness of audience response. We will focus on writing techniques that appeal to logic, emotion, and our credibility as speakers. Using text and video, we will analyze a wide range of speeches for effective writing and delivery strategies, and we will respond with constructive criticism to each other's work throughout our ongoing process of revision and reflection.

■ Music

The Music Department invites every Exeter Summer student, from advanced performer to absolute beginner, to study an instrument, sing in a chorus, play chamber music, or learn jazz improvisation or theory. Whatever your level, we have a place for you. Come join us! *Note: UPPER SCHOOL boarding students have the option of adding any music course listed below as a fourth course.*

Chamber Music

SMU-CMB Format D | All Grades

This is a class devoted to the practice and performance of instrumental chamber music from the Baroque era to the twenty-first century. Through coached participation in small ensembles and work with improvisational techniques you will enhance your skills as a chamber musician, develop creative interpretation of a variety of musical styles and perform in a public concert. Chamber Music is recommended for the intermediate to advanced instrumentalist.

Jazz Improvisation

SMU-JAZ Format C | All Grades

This course, for intermediate or advanced players, includes the study of the literature, history, and theory of jazz. You must have a minimum of three years playing experience and be able to play major scales in eighth notes in at least 6 different keys (C, F, Bb, G, D, A) to participate. Students will discover how to practice and develop improvisational skills, build a repertoire for concerts and jam sessions, participate in collaborative projects with other performing groups, and perform in a final assembly. Related activities might include workshops or field trips to jam sessions and concerts with professional jazz musicians from the area. Students need not play an instrument normally found in a jazz band (i.e., harmonica, violin, or flute).

Songwriting and Music Recording

SMU-SMR Format A and C | All Grades

Do the songs you listen to tell the stories that you want to tell? If you sing, play an instrument, and/or enjoy creative writing, this course will introduce you to the craft and techniques of songwriting and music production. Students in this course will listen to and analyze traditional and contemporary songs from the traditions of folk, blues, jazz, rock, and pop. They will then, individually or in collaboration with classmates, begin to create songs of their own. As these creations take shape, students will learn how to record them using GarageBand® or Apple Logic Pro. They will learn about the proper use of microphones as well as EQ and filters for the mixing process. The course will conclude with a listening session that will allow students to share their creations with an audience.

Private Music Lessons

Students may take private music lessons on a variety of instruments and in voice for an additional fee ($375 for five 50-minute lessons; $225 for five 25-minute lessons). Students planning on taking lessons should indicate so on the application and must apply by May 1, 2020.

Visual Art

It is our mission to create an experience that focuses on the process, excitement, and hard work of making art. Students pursuing an art portfolio suitable for college submission are encouraged to enroll in the department course offerings where fundamentals are taught. All students enrolled in studio courses will exhibit their work in the Student Art Exhibit in the Frederick R. Mayer Art Center on campus during the final week of the session.

Architecture

SAR-RCH Format C and D | All Grades

This course is an introduction to architectural model building. Projects require you to research, design, and produce a poster of a well-known architect, understand and draw the layout of your dorm room, and make plans and a model for a small house. Serious architecture students are encouraged to take *3D Computer Design* which features SketchUp®. Students who take both classes will have access to the Maker Lab and can make professional models using a laser cutter and 3D printers.

Ceramics

SAR-CER Format C/D MWF | All Grades

Do you like the idea of being able to have your morning tea or coffee in a mug you made? Want to eat your ice cream from a bowl you threw? Try your hand at the potter's wheel (and other methods) in this class and you will go home with a variety of cups, bowls, and "who-knows-what" made of oven-, microwave-, and dishwasher- safe ceramic ware. While you're at it, you just might learn a thing or two about making art by hand – like proportion, symmetry, emphasis, texture, contrast, the fine art of moisture control with clay, proper body mechanics on the potter's wheel, and how to glaze your finished work. No prior experience is necessary.

Clothing Design and Construction

SAR-CLO Format A and C | All Grades

In this course you will learn how to conceptualize, design, and build your very own garment! No previous experience is required, just an open mind and love for fashion. You will learn the elements of design and how to work with multiple mediums. You will get to know fashion design terminology and the design process by studying experts in the worlds of fashion and theater. From there, you will produce your own original rendering, learning the basics of machine sewing and hand stitching along the way. At the end of the course, you will have an overall understanding of design, how to communicate that design, and how to make it a reality! ***Limit: 8 students per format.***

Computer Animation

SAR-CAN Format A | All Grades

Animation plays an increasingly large role in digital media, advertising, film making, and web design. This course explores animation both as a creative art and as a commercial medium using software such as Adobe® After Effects® and Autodesk Maya®. It will expose students to a wide range of digital content creation including small web and mobile-based animations and fully rendered 3D characters. Students will learn about developing concepts, creating media content, editing, and using animations to convey an idea or story. The class will also discuss the role that this type of media plays in society and how it impacts the fields of art, design, performance, architecture, and advertising.

Digital Photography: The Creative Experience

SAR-DPH Format A and B | All Grades

Students who are interested in learning how to use their digital camera or smart phone camera will find this a very informative course. This introduction to photography stresses the photographic image as a significant visual statement. Through the work done on various assignments, students learn how to make effective compositions that are expressive and meaningful. Along with the photographic assignments, we will learn about the basic elements of composition, such as color theory, shape, form, and texture, as well as elements of the history of photography. ***Students are required to bring a digital camera or smartphone. However, a digital camera is strongly recommended for a more complete experience.***

2D Design and Composition

SAR-DDC Format B | All Grades

This course allows both beginners and experienced artists to study a variety of artistic techniques as they pursue individual projects. Students will experiment with a wide variety of materials and explore two-dimensional composition. We will discuss the steps for transition from assignment-based art projects to realizing your own artistic vision. Inspiration will be found from works across genres. We will consider topics such as line, shape, value, balance, texture, perspective, depth, and color in discussions of each other's works in progress. This is the perfect class for anyone who is looking to expand their artistic portfolio. From realistic to abstract, classical to comic book, you decide what direction your art will take you this summer!

Drawing: Learning to Look

SAR-DRW Format C | All Grades

If you want to learn how to draw or develop the skills that you already have, then this is the perfect class for you. In this observational drawing course, students have the opportunity to develop a thoughtful understanding of design, form, proportion, light and shadow, perspective, and space through a series of drawings from observation. Students will learn how to render and shade objects ranging from basic shapes (such

as cubes and cylinders) to more complex objects. Finally, the class will progress to drawing portraits and learn about all the concepts that encompass them, including anatomy, mood, and form. This course uses different mediums including pencil and black and white charcoal.

Oil Painting

SAR-OIL Format A/B TTS | All Grades

This course is a stress-free introduction to water-based oil painting. Students will explore the paint through basic forms, color mixing, painting techniques, and composition. They will rework a master painting and then explore their own piece of choice whether it is portraits, landscapes, or still life. We will also look to past and present artists for insight, and we will bring multiple perspectives to our paintings through group critiques. This is an all levels class and no prior experience is necessary. The more advanced students can further develop their technique and get personalized lesson plans.

3D Computer Design

SAR-TDC Format A and B | All Grades

SketchUp® is an easy-to-learn yet extraordinary artistic tool for developing 3D designs. Starting with a chair design tutorial, you will learn the tools of this drawing software. You will design a chess set and a project of your own choosing. No experience is necessary. Serious architecture students should consider this course in conjunction with the *Architecture* course. Students who take both classes will have access to the Maker Lab and can make professional models using a laser cutter and 3D printers. ***Students are required to bring their own laptop computer that is capable of downloading software and has a USB port. Chrome books, tablets and iPads cannot be used in this course.***

Computer Science

The Computer Science Department at Exeter Summer is committed to the belief that through a combination of group activities and individual exploration students acquire problem solving skills. Our objective is that every student become comfortable using a computer, whether in the area of information technology (applications) or in computer programming. Students are challenged to express themselves using current technology available through Exeter's extensive technological resources. Each course stresses cooperative work, problem solving techniques, structured use of applications, and ethical uses of the computer within a community.

Introduction to Computer Science

CMP-ICS Format A and C | Prerequisite: one year of algebra

How do we write a simple program? How do we talk to the computer? While we learn the technical skills necessary to write a program, much time will be spent on honing your logical thinking skills in algorithmic development so you begin to understand how to think about problems to be solved. The strategies applied in this course are easily transferred across many disciplines. Each day will begin with a new puzzle. What do you already know? What do we need to find out? What is the desired outcome? By working as a group we can solve the problem employing particular problem-solving strategies. The next step is to get the computer to solve the problem for us. You will learn to parse the data and apply clearheaded thinking to the problem of the day. By the end of this course, you will be confident of your new computer science skills. You will come away knowing how to approach a problem from a programmer's point of view, and be ready to take a full year of computer science at your high school.

Students are required to bring their own laptop computer that is capable of downloading software and has a USB port. Chrome books, tablets and iPads cannot be used in this course.

Game Programming

CMP-GAM Format A, B, and D | All Grades

Think about those online games that you play. Have you wondered how software engineers write these programs? Is it complex? Actually, it is not too difficult, but does take time to learn how to write a program using animation. This course will introduce you to the basic concepts of game programming. No previous experience is needed. You will have the opportunity to understand basic animations, movements, and collision detection, using graphics and sound while learning the elemental principles of creating a dynamic game. You will leave with an appreciation of the technical skills of a game designer and write a few of your own games to play with your friends.

Students are required to bring their own laptop computer that is capable of downloading software and has a USB port. Chrome books, tablets and iPads cannot be used in this course.

English and Writing Skills

The Exeter Summer English Department believes that students learn best when they are actively engaged with the material and each other. At the heart of each class are student-generated and centered discussions about literature, student writing, and themes of social and moral significance. Attentive and responsible preparation and participation is required from each member of the class. The English Department also believes that written expression is an integral part of learning, communicating, and thinking. You can expect to engage in the process of writing and to develop the skills of peer-editing and revision in both literature and writing courses. All courses are designed to enhance speaking, listening, reading, writing, and thinking skills.

AP Level Preparation

EWS-APP Format D | Grades 11-12

This course will prepare students to confidently meet the challenges posed by the AP Literature & Composition curriculum. In addition to refining close reading, analytical writing, and critical thinking skills, students will learn and implement strategies to help them successfully navigate the AP Literature exam. To this end, students will have ample opportunity to complete multiple choice assignments and write essays under strict time conditions that accurately simulate the exam and its unique demands. As we proceed as a class, we will pursue a deeper appreciation of great works of literature, new and old alike. In Harkness discussions, students will meaningfully articulate their thoughts as they read complex works by authors such as Bronte, Borges, Woolf, Wilde, Conrad, Calvino, and Kundera. The reading list changes yearly.

The Craft of the Essay

EWS-CRE Format B and D | All Grades

This writing-intensive course focuses on the formal essay required in high schools and colleges across the range of academic disciplines. Students will work on how to develop strong, viable theses and support them effectively with persuasive evidence and specific details. Moving beyond the traditional five-paragraph essay, students will read, discuss, and analyze classic and contemporary works by essayists such as Orwell, Bacon, Swift, E. B. White, Hurston, Didion, Sedaris, and others. Harkness discussions, peer editing, and writing assignments will emphasize strategies for critical analysis and effective rhetorical techniques. Students will also examine the personal essay, which is the basis of a successful college application essay.

Creative Writing

EWS-CRW Format A, B, C, and D | All Grades

This course is for students who have previous experience and investment in creative writing. Designed to help young writers discover and develop their own personal and artistic voice, the course is conducted as a workshop which provides a forum for discussion of published works as well as the students' own pieces. Students may expect to write in several genres and be willing to share their writing. They will learn how to participate in writing workshops and how to critique each other's work. The course encourages openness to experimentation and revision.

Debate & Argumentation

EWS-DAA Format A and C | All Grades

In this course, you will be given an introduction to the fundamentals of debate and will have many opportunities to practice these fundamentals in the classroom. We will focus on the research and development of constructive and negative speeches through library research. You will learn to make presentations that include a traditional debate format with cross-examination. We will analyze and evaluate a variety of forms of rhetoric. No previous debate experience is required to take the course.

Grasping Grammar

EWS-GGR Format A | All Grades

This course will focus on the fundamentals of English grammar: verb forms, pronoun cases, agreement, parallel structure, idioms, transitions, syntax, and diction. Students will read and discuss short fiction, poetry, and non-fiction essays as models of effective writing. Through vocabulary study and assignments that emphasize logical development of theses and supporting arguments, students will strengthen their own writing skills . While not designed as a course to prepare students for specific exams, *Grasping Grammar* may help students feel better prepared for the SAT II Writing Test and the AP Language and Composition Exam.

Great Books/Great Reading

EWS-GBR Format A and C | All Grades

As Holden Caulfield thinks to himself in *The Catcher and the Rye*, "What really knocks me out is a book that, when you're all done reading it, you wish the author who wrote it was

a terrific friend of yours and you could call him up on the phone whenever you felt like it. That doesn't happen much, though." It's true, it doesn't happen much. When we are able to find a knockout text and have a great discussion about it with each other around the Harkness table, it's magical. In this course, we will aspire to this goal. This class will appeal to students who, like Holden, love to read (or are still learning to love to read) and who are seeking exposure to novels and short stories that are diverse, dynamic, and compelling. More specifically, we'll busy ourselves with complex, challenging page turners by such writers as Fitzgerald, Hemingway, Hurston, Baldwin, McCullers, O'Connor, DeLillo, and Vonnegut, depending on the year. In addition to reading critically, students will be asked to write analytically in an effort to deepen their relationship with the material.

International Crime Fiction

EWS-ICF Format C | All Grades

This course introduces students to some early developers of "detective fiction" genre from America and Britain, such as Edgar Allen Poe, Agatha Christie, and Sir Arthur Conan Doyle. Students will study the initial focus of these authors on detectives and detective work and see the development of the genre into a much broader range of storytelling and styles. The genre now broadly referred to as "crime fiction" is written in countries and languages around the world. You will encounter a diverse range of authors working in a variety of settings, from genteel British country estates to the streets of 1950's Harlem, from the crowded back alleys of Cairo to the deserted reaches of The Outback...the possibilities are endless. You will examine the many manifestations of "the criminal mind," and study the ways various "crime fighters", whether amateur detectives, private eyes, or police officers, go about the business of "detecting" and utilizing evidence to bring wrongdoers to justice. Along the way, you will try your hand at writing your own pieces of crime fiction and produce short analytical pieces examining the books and films they encounter. Possible texts: *The Longman's Anthology of Detective Fiction*; *The Real Cool Killers*, Chester Himes; *The Big Sleep*, Raymond Chandler; *Devil in a Blue Dress*, Walter Mosley; *The Golden Scales,* Parker Bilal; *The Dry*, Jane Harper; *Borkmann's Point,* Håkan Nesser; *The Snowman*, Jo Nesbø; *No Happy Ending*, Paco Ignacio Taibo II.

Literature of American Politics

EWS-LAP Format D | All Grades

America is going into the 2020 election year more divided politically than any other time since the Civil War. This new course goes behind the riotous headlines to examine the enduring themes in the body politic. Students will read and discuss such fiction classics as: *All the King's Men*, Robert Penn Warren; *The Gay Place*, Billy Lee Brammer; and *Primary Colors*, Anonymous (later exposed as Joe Klein) to see how great writers use documentary materials at hand to create transformative works of art.

Journalism

EWS-JRN Format A and B | All Grades

Like to see your name immortalized? Want to leave your imprint on the world? Interested in how the news gets reported, edited, and written? This course will teach you the basics of journalism in today's exciting social media culture. Whatever your career interests, communicating at the top of your game will set you ahead. Collaborating with your classmates, and using Twitter®, Facebook®, blogging and video, you will write, edit, and produce a weekly online newspaper, www.peasummertimes.com, chronicling the doings of your fellow Exeter Summer students with breaking news stories, features, commentaries, editorials, and photos. You will have the opportunity to hone your skills in researching, interviewing, thinking, speaking, and writing clearly, while meeting deadlines. You will learn how InDesign® is used in news layout. By studying current events you will engage in spirited discussions about how journalists cover news around the world.

Writing the College Admissions Essay

EWS-CAE Format A and B | All Grades

Akin to a modern day rite of passage, writing the college admissions essay can be an arduous, mystifying, stressful experience. It's a type of essay that requires an approach and style of writing with which many students are unfamiliar and unpracticed. The good news is that this approach and style can be learned. Everyone has the capacity to write an effective college admissions essay that contributes considerably to the overall strength of their college applications. In this course, we'll focus on how to best craft a reflective essay that draws on personal experience, responds to a handful of the Common or Coalition application prompts, and conforms to the stringent length constraints these applications require. To this end, we'll discuss audience and purpose, idea generation, pre-writing techniques, organization, and the narrative and reflective techniques that are the hallmarks of all powerful, memorable writing. Each student will have the opportunity to read exemplary student models and engage in a workshop format along the way, emerging with several viable writing pieces suitable for submission. Students will also have the opportunity to listen and learn from visiting college admission professionals who will draw on their experience in the field to dispel common misconceptions, describe how essays are evaluated, and discuss how they factor into the admissions process.

Writing Process Workshop

EWS-WPW Format B, C, and D | Grades 10 - 11

This class offers students an in-depth examination of the elements of the writing process. Students will learn to generate compelling topics, organize their ideas, use effective transitions, and write with style and precision. Assignments will help writers become aware of audience and purpose as they discover strategies for sustaining longer pieces of prose. All essay assignments will be drawn from personal experience and will not conform to the traditional five-paragraph form. Students will become part of a community of writers engaged in collaborative analysis and discussion. Classroom workshops will facilitate open-discussion critique, peer-editing, and revision. Reading will complement the writing assignments and offer models for your prose.

English for Non-Native Speakers

Exeter Summer provides a language immersion experience for non-native English speakers in dormitory assignments, extracurricular activities, assemblies, and the bulk of the academic work. The following courses are offered to help students gain confidence in their immersion and to support non-native English speaking students who are still honing their skills in spoken English, English grammar, vocabulary, reading, and conversation. Student-generated and centered discussions are at the heart of each classroom and require attentive and responsible participation from each member of the class.

Becoming a Confident Writer for Non-Native Speakers

EFL-BCW Format A, B, C, and D | All Grades

In this introductory writing workshop, we believe that the act of writing can help produce confidence in reading, writing, and thinking skills. You will complete daily writing exercises that stress observation, description, detail, and development of voice. Students build confidence in their skills through frequent short pieces of writing drawn from experiences and consistent reinforcement of "showing" rather than "telling." Students will be led through the process of drafting, editing, and evaluating their own writing. Prose assignments may include personal narratives, personal essays, and expository writing. Harkness discussions will examine works of non-fiction prose and will provide a forum for discussing drafts of students' papers. Students who enroll in this course become a member of a small community of writers eager to help one another through thoughtful discussion and literary analysis. ***Please note:*** **Students interested in writing poetry or short fiction should sign up for the *Creative Writing for Non-Native Speakers* (EFL-CRW) course rather than this course.**

Creative Writing for Non-Native Speakers

EFL-CRW Format A and C | All Grades

Do you love to write? Do you have a story to tell? This introductory workshop will help students improve their writing and further develop a love of language through significant writing practice. Students will explore narrative, fiction, and poetry while practicing the fundamentals of grammar and punctuation. They will be asked to write often, both in and out of class, and will produce a portfolio of short creative pieces. Additionally, students will develop listening and speaking skills essential to a writing workshop. Short readings – primarily stories and poems – will provide models for student work.

Grasping Grammar for Non-Native Speakers

EFL-GGR Format A, B, and D | All Grades

In this course, students will become better speakers and writers of English. Students start by composing a number of short pieces that will be used to identify weaknesses in their writing. The focus will be to improve on their areas of greatest need. This diagnostic approach will provide individualized attention to each student and afford them the opportunity to refine their command of English. In addition, students will undertake a formal study of parts of speech, noun clauses, adjective clauses, gerunds, and infinitives.

USA: Exploring American Culture

EFL-USA Format A, B, and C | All Grades

This course is for non-native English speakers who want to develop their writing and discussion skills. Through challenging and enjoyable activities, you will learn a lot about American culture that is especially useful if you plan to attend high school or college in the United States. You will read, discuss, and write about essays, poems, and articles. Students watch American films and study American education, history, art, customs, people, and food. Our international Harkness table discussions are designed to expand your English vocabulary.

Health and Human Development

The Health and Human Development department mission is to prepare and empower students to value and engage in healthy lifestyles by honoring diversity, fostering leadership, and encouraging students to reach their highest potential as productive, responsible citizens at the Academy and beyond. Our courses challenge students to stretch their understandings of health issues in trusting and respectful environments. In order to facilitate positive health choices today and in the future, students are provided opportunities to examine their values and attitudes, through developing skills in critical thinking, decision-making, self-advocacy, and interpersonal interactions.

Euphoria: The Human Pursuit

HHD-EUP Format C | All Grades

This course will explore the use of mind-altering practices and substances throughout history, across cultures and within subcultures around the world. From a biochemical, sociological, political, and psychological standpoint we will probe the reasons why people seek to alter their state of being, whether through the use of drugs or through natural means. Students will also learn about drug policy and legal issues, and gain an understanding of how race, class, and social standing influence outcomes and behaviors.

The Science of Happiness

HHD-HAP Format A | All Grades

This course explores the roots of a happy and meaningful life. Students will engage with some of the most provocative and practical lessons from science and discover how cutting-edge research can be applied to their own lives. Exploring core findings from positive psychology, students will discover how happiness is inextricably linked to strong social ties and how it contributes to something bigger than oneself. Students will learn about the varied research supporting this view and gain practical, research-based strategies for nurturing their own happiness. The purpose of the course is to not only learn what psychological research says makes us happy but also how to put strategies into practice to create a happier life.

Introduction to Mindfulness

Extracurricular Evening Class | All Grades

This 4-week class will introduce you to the practice of mindfulness. Several very useful skills, including meditation, that can help with stress management and living a more open and full life, will be taught. Research has shown that practicing mindfulness over time can help with improved sleep, enhanced learning, resiliency, and maximizing one's potential. This hour-long class is highly structured and requires a commitment to attend all four weeks. It involves keeping a daily log and committing to a mindful practice of your choice for 10 minutes a day. Fun, interactive, and very useful to our busy lives, this class is a wonderful way to strengthen your ability to focus and to gain perspective on the stresses of everyday life. All experience levels welcome.

This is a free class that meets one evening for one hour each week. Space is limited. After acceptance into the program, interested students should send an email to summer@exeter.edu by May 1, 2020.

History and Social Sciences

The Exeter Summer Department of History and Social Sciences offers a diverse program of study for motivated students who want an experience that may not be available to them during the academic year. We strive to offer a curriculum that emphasizes a broad understanding of the human experience. Courses include studies in American and world history as well as the social sciences. In order to provide a deeper understanding of human thought and behavior, we offer selections in economics, humanities, media studies, psychology, and philosophy. In all areas of study, you will have the opportunity to explore ideas, question concepts, and conduct research while developing essential skills in analytical reading, writing, and collaborative work.

History

Freedom and Justice for All? Exploring the Experience of African Americans

HSS-FJA Format A | All Grades

Black people are incarcerated at a rate five times that of white people in a prison system that has ballooned from 200,000 inmates in 1970 to over 2 million today. African Americans, as compared to white Americans, are also disproportionately victims of police shootings. How can this be after the Civil Rights movement brought us so far from "whites only" water fountains and bus seats? By studying the culture and history of the U.S. with a focus on the experiences of many African Americans, we will witness how the struggle for freedom and justice for all has unfolded. We will study black music, art, and literature to hear the voices of people like Kendrick Lamar, Langston Hughes, Malcolm X, James Baldwin, Maya Angelou, and Angela Davis as each gives voice to her or his experience. From the Harlem Renaissance to Hip Hop music, from Dr. Martin Luther King Jr.'s active non-violent resistance and the "Black Power" movement to "#BlackLivesMatter," we will reveal a rich context for the unfolding of a great American drama with our eyes toward a future where we may all actually be free at last.

Global Security

HSS-GLO Format B | All Grades

This course will examine contemporary security challenges that have global dimensions, such as the proliferation of international terrorism, climate change, nuclear weapons, mass migration, and world health crises. In the face of these transnational problems, governments have struggled to provide effective solutions. We will evaluate the importance of the nation-state in furnishing solutions to security threats that cross borders as well as international organizations like the United Nations and the work of non-governmental organizations like Climate Action Network or Doctors Without Borders. Students will discuss what can be done to improve our collective security today, where we see progress toward greater justice and world peace, and what approach should be favored as a way forward.

Modern Europe (1945-Present)

HSS-MEU Format D | All Grades

This course is the study of contemporary Europe as it emerged from wars and fascism and as it moves towards greater integration and international responsibility. Students will study forms of economic and political cooperation among European nation states and the evolution of the European Community with its continued expansion. We will review problems such as the renewed East-West détente, the North-South conflict, and Europe's responses to other world or area issues. You will specialize in the recent history of one European country as the focus of a course project. The class will use films, debates, and interviews with students on campus in the course of our study.

Understanding War and Peace

HSS-UWP Format D | All Grades

Are humans naturally violent? How do societies avoid violence and garner peace? What role does technology play in shaping violent behavior? This course introduces students to three interrelated yet analytically distinct phenomena: violence, war, and peace. We will explore the history of these subjects in a global context, focusing on both ancient and modern understandings about the reasons for violence, war, and the possibilities of peace. Students are introduced to the concept of *just war theory* which is critical for framing ideas about justice and the use of war. Readings will be augmented by occasional film studies throughout the course.

U.S. History

HSS-HIS Format A | All Grades

This course serves as an introduction to major themes in American history. We will think carefully about how American values and institutions have been created and changed over time. In particular, we will explore the concept of freedom as an ongoing contested definition between liberty and equality. We will study topics, such as independence and Revolution, Civil War and Reconstruction, the Gilded Age and progressivism, the Great Depression and the New Deal, and the struggle for racial and gender equality. Along the way, we will learn about seminal political leaders such as Thomas Jefferson, Abraham Lincoln, Frederick Douglass, Franklin Roosevelt, Eleanor Roosevelt, Martin Luther King, Malcolm X, Betty Friedan, and Gloria Steinem. We will ask how these political actors sought to modify the meaning of freedom in the American imagination. This class will prepare you to write analytical essays, conduct library research, enhance your performance on exams, and build a foundation for college-level work. Any student – American or international – who would like to (re)discover the American past is welcome!

***Note:* This class will help those students preparing for the AP or IB U.S. History course.**

■ Humanities

The Art of Being Human

HUM-ABH Format D | All Grades

Is our humanity something that can be cultivated? If so, which capacities are relevant and what standards of excellence should we employ? Literature, art, psychology, philosophy, and sociology are among the divergent lenses used to investigate what human beings can create, pursue, and become. This course explores insights into human experience provided by the humanities and social sciences. We consider whether there is such a thing as objective goods for humans. Wealth, wisdom, virtue, health, accomplishment, celebrity, leisure, pleasure, happiness, and love are among the various conditions that have been attributed to having a fulfilling life. To what extent are any of these necessary or sufficient goods? What does our pursuit of these goals reveal about our humanity? We will critically analyze historical and cultural assumptions, including our own, in order to better appreciate what it means to be human.

Global Justice

HUM-JUS Format C | All Grades

Have you ever thought about what you can do when large scale global issues flash across your phone or TV screen? The increase in technology and media have granted us a front-row seat to the great issues afflicting all corners of the world – oppression and human trafficking, genocide and war, dictatorships, poverty, and gender disparities. Through various documentaries, articles, and the book *Half the Sky*, this course will delve deeper into how we define global justice in an ever changing and evolving world while considering ways in which to solve these major crises. We will tackle questions including: What roles and responsibilities do countries and individuals play in aiding those effected by global justice issues? How do individuals and governments differ in their perception of global justice? Why is there such a division between governance by religion and governance by state? When can the divide between religion and politics create a moral dilemma? Throughout our quest for understanding, we will tackle major themes including women's empowerment, the role of the UN, climate change, responsibility of developed countries, and the work of non-governmental organizations (NGOs). Finally, we will look at the role the media plays in focusing the world's attention on these issues.

The Media and Society

HUM-TMS Format B and D | All Grades

How does the media affect society? Through the study of newspapers, magazines, television, radio, film, advertising, the Internet, and social media, you will explore the influence of the media on various aspects of American society, including politics, business, and consumer and fashion trends.

***Note:* International students with a strong command of English are encouraged to enroll in this course.**

Belief and Doubt

HUM-BEL Format B | All Grades

What roles do suspicion and trust play both in our efforts to make sense of our lives individually and in our attempts to live together well? This course invites students to explore the complexity of meaning-making in its many forms from traditional religious belief through radical skepticism. The texts we will read together include religious and philosophical classics ranging from Buddha and Augustine to Marx and Nietzsche. Our shared inquiry will also consider contemporary cultural selections such as *Life of Pi*, *Until We Have Faces*, *The Reluctant Fundamentalist*, *To Pimp a Butterfly*, and *Silence*. With the help of Emily Dickinson, Fyodor Dostoevsky, Haruki Murakami, Flannery O'Connor, Alfred Hitchcock, and others, we will improve our ability to recognize where belief and doubt function in our lives.

Philosophy and Everyday Life

HUM-PHI Format A and D | All Grades

Most human beings take the world we sense, the world we see, hear, and feel for granted. But how do we know if "the world outside" is real? What if we all live within "the Matrix"? How can we tell if we are simply dreaming or plugged into some giant computer? We seem to make choices every day: what to wear, to study or watch a movie, to go out with this person or that person. But are we really "free" to choose or do social and psychological forces, genetics, and instincts

determine our life? Is freedom an illusion? What about God? Does God exist or is the idea of "God" a human creation? What about right and wrong? Are "good" and "evil" words reflecting personal feelings and cultural norms or something more universal? These are some of the profound questions that we will grapple with throughout this course, guided by the insights of mentors, both classical and contemporary, from Aristotle to Žižek.

The Moral Life

HUM-TML Format A | All Grades

Some lives exemplify an extraordinary human capacity for love and justice, sacrifice and solidarity. Mother Teresa, Malcolm X, Gandhi, Dorothy Day, Martin Luther King, Thích Nhất Hanh, Dietrich Bonhoeffer, Angela Davis, Lee Jong-rak, and Desmond Tutu are among figures who have been held up as models of a moral life. What role do moral exemplars play in inspiring and sustaining our own moral imaginations? How should we understand the moral and political victories achieved by these figures, as well as their struggles and failures? Do their lives provide an example for, or even place a moral demand upon, the rest of us? Or are such lives truly extraordinary, lived on a plane far removed from ordinary human desires, interests, and activities? This course provides an opportunity for students to consider the lives of several moral exemplars and to reflect on essential questions of meaning and purpose in their own contexts.

Understanding Arguments

HUM-ARG Format D | All Grades

How might one argue for the right to an abortion or the injustice of the death penalty? In this course we will attempt to answer such questions by exploring the structure of persuasive argument. We will cover the concepts of validity, truth, fallacy, and inductive vs. deductive reasoning, using these concepts to analyze and evaluate specific arguments. Special emphasis will be placed on legal and moral reasoning, including a study of affirmative action and abortion issues. This course is designed to improve both written and oral communication skills.

Psychology

His/Her/Self

SPS-SEL Format A | All Grades

What does it mean to be male or female? To answer this question, we might examine the ways in which media (movies, video games, TV, music, and advertising) are able to influence ideas about masculinity and femininity. In an attempt to decipher what makes us who we are, we examine the part that both our brains and our bodies play in this search. Using the prism of religious influences and global diversity as well as the role of heroes, past and present, we may find some clues to this puzzle. More importantly, we will discuss both valid assumptions and misconceptions about our roles and look for tools that will help us negotiate the challenges of life in the 21st century.

Introduction to Psychology

SPS-INP Format A, B, C, and D | All Grades

In this course we explore the science of human behavior and cognition. We begin by looking at methodology (experiments and case studies), and then discuss learning and memory (eyewitness testimony), problem-solving, intelligence (the en vogue concept of multiple intelligences), and language. After focusing on cognition we turn to social behavior, discussing techniques of persuasion and the effects of groups on individuals' behavior (mob psychology and bystander intervention). Finally, we study psychopathology – specifically, the symptoms and treatment of mental illnesses such as depression, schizophrenia, and developmental disorders like autism. Students are graded on class participation, opinion papers, and group projects.

The Journey Inward

SPS-TJI Format B | All Grades

Have you ever thought deeply about the journey of your life? Where you have come from and where you are going? This course will focus on finding answers to the questions of personal growth and self-understanding by exploring psychological theories, literature, and film. We will start by exploring developmental theory through the likes of Freud, Kohlberg, Erikson, and various (in)famous psychological experiments, before applying these theories to characters from classic works of fiction. We will then turn that theoretical lens upon ourselves and through journal keeping explore dreams, fantasies, early life experiences, group dynamics, the nature of evil, and the importance of love. If you want to better understand what it means to live and grow, it might be time to take a journey inward.

Neuropsychology

SPS-NEU Format D | All Grades

This course is designed to introduce you to the biological underpinnings of the brain's influence on behavior. We will delve into topics such as neuroanatomy, brain development and plasticity, learning and memory, sensation and perception, and neurodegenerative disorders. We will use the findings from current research to evaluate some of the major questions in the field of neuroscience. Can the brain recover from severe trauma? Why do we sleep? Do gender differences exist at the neural level? In addition, we will uncover how perception of the world around us impacts behavior and how we respond to everyday experiences. This course will explore behavior at the level of the synapse up through the mysteries of neural networks, increasing your understanding of the brain's involvement in every thought, emotion, and action you experience.

Social Psychology

SPS-SOC Format C | Grades 11-12

This course will introduce you to social psychology, the scientific study of social life. As humans are inherently social beings, the range of topics we will consider is quite broad: decision-making, behavior in groups, cooperation and helping, persuasion, stereotyping and prejudice, aggression and conflict, and the influence of subtle and automatic stimuli on our behavior. Relating these topics to everyday experience and current events is an important component of the course.

Social Sciences

Basic Principles of Criminal Justice

SSC-CRJ Formats B and D | Grades 11-12

Is America's criminal justice system sufficient for today? How does discrimination play a role in the system? The focus of this course is to consider problems such as racial profiling, search and seizure, rights of privacy, cruel and unusual punishment, speedy trial and appeal, and mass incarceration. We will make use of various sources, including recent cases, current events, and *The New Jim Crow* by Michelle Alexander to debate these larger questions surrounding justice. In addition, we will have Harkness table discussions on other controversial issues including police brutality, #BlackLivesMatter, the death penalty, and sexual assault on college campuses, among others.

Economics and Business Principles

SSC-ECO Format A, B, and C | Grades 11-12

Current economic issues and business operations will be the focus in this course. This is NOT a course in economic theory, although you will learn the essential facts and theories about investment, productivity, inflation, recession, monetary and fiscal policy, and the stock and bond markets. In addition, we will examine some basic business financial methods. **Only students with a thorough mastery of English should enroll in this course.**

Global Economics

SSC-GEC Format A and C | Grades 11-12

Why are some countries more developed than others? What responsibilities do the wealthy nations have towards the poor nations? Is democracy necessary for countries to develop economically? Could child labor be beneficial to poor countries' economies? These are just some of the questions we will discuss. This course introduces students to the principles of international and development economics. We will study a wide range of international issues including inequality and poverty in less developed countries, the lives of the poor, foreign aid and debt relief, microlending, global financial crises, the role that geography plays in development, and the role that organizations, such as the World Bank, might have. **Only students with a thorough mastery of English should enroll in this course.**

Leadership and Society

SSC-LEA Format C | All Grades

In this course students will be introduced to several types of leaders who have significantly affected society. We will study concepts from various disciplines such as anthropology, history, mythology, psychology, and philosophy in order to gain a greater understanding of the interaction of leaders in their respective societies. Mohandas Gandhi, Martin Luther King, Jr., Albert Einstein, Mao Zedong, Franklin D. Roosevelt, Adolf Hitler, Eleanor Roosevelt, Frederick Douglass, Harriet Tubman, and others may be among the leaders we examine. We will emphasize the critical thinking skills you will need to be successful in college.

Leadership for a Better World

SSC-LBW Format D | All Grades

How do I change the world? Not alone! In this course, students will examine the ideals of civic engagement and social justice by exploring modes for leadership in the global community through politics, service, community development, and activism. Research shows that we have become increasingly disconnected from family, friends, neighbors, and our democratic structures. Students will look at ways to reconnect with each other and their communities, and discover how they can lead others to make a difference.

Leadership in Athletics

SSC-LIA Format D | All Grades

The world of sports is rife with examples of great leaders and challenges that allow us to explore the complexity of leadership. This course will analyze how leadership manifests itself on the field from the perspective of players, such as Michael Jordan and Peyton Manning, as well as from the sidelines through coaches, like John Wooden and Joe Torre. We will examine current events that reflect leadership challenges for coaches, athletes, and fans such as steroid usage, the off-field behavior of professional athletes and coaches, and the sport scandals. Topics students will explore include: skills and characteristics of sports leaders, the relationship between leaders and followers, coaches as leaders, team captains as leaders, conflict resolution and team dynamics, and the role of gender in sports leadership.

Politics: Power and Responsibility

SSC-PPR Format B | All Grades

Politics, it has been said, is the art of striving to maintain, share, transfer, and influence the distribution of power. This course will examine how power – the ability to achieve desired ends and, when necessary, influence the behavior of others to bring about these ends – and responsibility mesh

in political life. We will consider the pressures of balancing money and influence; the difference between enemies and adversaries; the difficulty negotiating through competing loyalties – loyalty to one's party, to one's constituency, and to one's own ideals; of knowing when to fight passionately and knowing when to compromise. We will also consider the "soft" and "hard" tools of power and their relative strengths and weaknesses. Readings include classic and contemporary authors: Aristotle, Thomas Hobbes, Niccolo Machiavelli, Max Weber, Vaclav Havel, Joseph Nye, Fareed Zakaria, and Michael Ignatieff.

Social Ethics

SSC-ETP Format C | Grades 11-12

This course introduces students to a variety of debates concerning contemporary ethical issues. Through reading and Harkness discussions, you will consider some of the most compelling moral topics of our time: capital punishment, cloning, stem cell research, euthanasia, free speech, the treatment of war prisoners, conservation and the environment. The course will provide you with the analytical tools necessary for examining and critiquing these issues, while helping you define and support your own positions.

The United Nations: Global Community

SSC-UNN Format D | All Grades

How much do you know about the UN? Since the end of World War II, this international group has grown from 51 to 193 member nations. Like any organization, it has experienced both achievements and setbacks. It has celebrated the end of the Cold War and the independence of post-colonial nations but it has also faced genocides, terrorism, and natural disasters. Its current challenge is to adapt to increasing demands for justice, fairness, and the rule of law in a world of diminished resources. Through weekly Model UN sessions, simulations, and engagement with guest speakers, this class will examine the UN's efforts to find solutions to the many challenges we face in the 21st century. Examining UN campaigns to end human trafficking, violence against women, and environmental degradation will prepare students to become discerning and responsible citizens within the global community.

Languages and Culture

In a world where globalization is a rapidly growing reality, learning two, three, or even four foreign languages is a highly valued skill. Students taking a modern language will find themselves immersed in authentic language for five hours a week with a variety of homework exercises to reinforce the essential skills necessary for communication and interaction in a variety of cultures. The Harkness class encourages active learning and fosters participation. Whether you are looking to strengthen your skills in a language you are already studying, eager to try something new before college, or hoping to gain basic fluency for more productive engagement, these courses will suit your needs. Instruction in the introductory classes assumes no prior knowledge of the language. Note: Courses will run based on enrollment.

Beginning Chinese

LNG-BCH Format C | All Grades

This course introduces you to basic grammatical elements of the Chinese language by using simple situational vocabulary that reflects everyday activities. While you will learn to read and write the language, emphasis will be placed on communication skills. Students will be introduced to Chinese writing in simplified Chinese characters. This course will be further enriched by Chinese calligraphy practice and cultural video presentations.

Beginning French

LNG-BFR Formats A and D | All Grades

Spoken as a native language on five continents, French remains an important international language for diplomacy, business, and art. With an emphasis on communication skills, you will practice the language through experience and multimedia simulations: introductions, lodging, transportation, grocery shopping, recipes, music, video clips, and a variety of other cultural activities. Whether you are interested in pursuing formal study of the language or simply want to function effectively in a francophone country, you can enjoy France from a multimedia classroom with your instructor as a tour guide.

Beginning German

LNG-BGR Format C | All Grades

This five-week course will offer you a simple survival guide for your first time in a German-speaking country or in a future German class. You will be able to talk about yourself, find your way to a train station, engage in a basic conversation, order a meal that you actually want from the menu, and pay for it without surrendering your wallet to the waiter. You will become familiar with a few basic geographical, political, and cultural aspects of Austria, Germany, and Switzerland. In addition, you will find out what the German language is all about by exploring the very flexible sentence structure and the seemingly endless phrases and nouns.

Beginning Italian

LNG-BIT Format C | All Grades

This course will immerse you in the sights and sounds of Italy. Through dialogues and presentations, you will become familiar with the vocabulary and structures. Common themes include food, family, leisure, sports, and lodging. Present tense, articles, pronouns, numbers, colors, and activities will be mastered. We include films, magazine articles, poetry, music, and food tasting in our curriculum. This is a great course for those who would like to explore a new language.

Beginning Korean

LNG-BKR Format C | All Grades

Do you ever wish that you could watch K-drama or listen to K-pop without subtitles? Did you know that you can learn the Korean alphabet, Hangul, in about an hour? In this beginning course, you will learn basic communication skills, vocabulary, and grammar patterns. You will be introduced to culturally appropriate conduct like greetings, gestures, and body language. By the end of this course, you will be able to talk about yourself and communicate through some simple everyday activities. Emphasis will be placed on learning through dynamic interaction.

Beginning Spanish

LNG-BSP Format A | All Grades

The Spanish language continues to rise worldwide and here in the United States there are approximately 41 million Spanish-speaking US residents, and this number is growing. In this beginning course you will gain a basic knowledge of conversation, grammar, and Spanish-speaking cultures through readings, music, and film clips. Upon completion of the five-week session, you will have an elementary level of Spanish abilities in the four main skills: speaking, listening, reading, and writing.

Intermediate Conversational Chinese

LNG-ICC Format D | Prerequisite: one to two years of high school Chinese

This course is for a student who already has a basic knowledge of the Chinese language and would like to strengthen and enhance their language skills. Through class dialogues in Chinese, the student will improve their comprehension of both spoken and written Chinese. You will continue to learn either traditional or simplified Chinese characters, and you will build confidence in your speaking ability. Students also write essays about their favorite subjects as a basis for oral presentations. In this course, you will have an opportunity to practice Chinese calligraphy, watch Chinese movies, and enjoy a cooking class.

Intermediate Conversational French

LNG-ICF Format B | Prerequisite: one to two years of high school French

This class is for students with one to two years of French instruction who want to build confidence in conversation and develop a more extensive vocabulary. Come ready to make the leap into French culture as you will be immersed in the language through dialogue and real life situations. The course will provide students with confidence to speak French in everyday situations such as going to the market, finding a hotel, wandering through town, or asking for directions. In addition, students will learn about traditional French foods, holidays, and cultural customs.

Intermediate Conversational Spanish

LNG-ICS Format D | Prerequisite: one to two years of high school Spanish

This course is for students who have an intermediate level of Spanish. The course will strengthen students Spanish comprehension and use of the language. The focus is on conversation with emphasis on pronunciation, fluency, and vocabulary. It will provide the knowledge, vocabulary, and linguistic structures necessary for students to use Spanish effectively for communication. Students will participate in discussions of a variety of topics using the Harkness method. Students will improve and gain confidence in their Spanish skills.

Introduction to Latin

LNG-ITL Format B | All Grades

At its height, the Roman Empire stretched from the British Isles to Northern Africa and from the Atlantic shores of Spain deep into the heart of the Middle East. This course introduces students to the fundamentals of the language that helped unite millions of diverse peoples and whose extensive influence can still be seen in many modern languages, including English. As a class, we will explore the history and culture of Ancient Rome and learn the fundamentals of the Latin language through reading and writing. For those who already know some Latin, this course can be a review of fundamentals. The main focus will be to teach you how to read in a foreign language with ease.

Classical Mythology

LNG-CLM Format A | All Grades

From Daphne and Apollo to Orpheus and Eurydice, the stories of classical mythology have influenced us for thousands of years. Classical myths continue to appear in art, literature, film, and theatre, from the plays of Shakespeare to the more recent musical *Hadestown*. In this introductory course, we will examine some of the major characters and their stories by reading, discussing, and writing about ancient sources. Selections may comprise of Hesiod's *Theogony*, Ovid's *Metamorphoses*, Sophocles' *Antigone*, as well as ancient art and sculpture. Some questions we will explore include: What is myth? Why do societies create myths? How does mythology shape thought and culture? All sources will be read in translation. No previous knowledge of Greek or Latin is required for this course. The course will emphasize writing (in English) to build an argument using literary and artistic evidence from the ancient world.

Spanish Grammar Review

LNG-SGR Format C | Prerequisite: one to three years of high school Spanish

Still need help understanding the differences between *ser* vs. *estar,* preterite vs. imperfect, *por* vs. *para*, indicative vs. subjunctive? Then this course is for you. Students will review grammar exercises to increase mastery of specific structures through reading and writing. By retelling stories both orally and in written form, students gain a firmer grasp of the grammar while increasing their fluency. Readings may include magazine and newspaper articles, as well as short stories. This course offers students the polish and confidence they want when they return to their Spanish class in the fall.

Mathematics

Our mathematics curriculum is designed around the central tenet that mathematics is best learned by solving problems. In most of our courses, we replace the standard textbook with collections of problems authored by teachers at Phillips Exeter Academy. These problem sets feature the presentation of new material within the content of actual problems posed to the students. While you will certainly learn subject-specific concepts and techniques, the focus will be on developing problem-solving skills that will enable students to respond in kind to any new material in future mathematics course. As with other Harkness classes at the Academy, students will be expected to participate actively and to persevere if their first efforts do not yield immediate success. Through active participation, you will gain an enhanced ability to ask effective questions, answer fellow students' inquiries, and critically assess and present work. Our ultimate goal is to see the student, not the teacher or textbook, become the source of mathematical knowledge.

Students are required to have either a scientific or a graphing calculator for these classes. Students should also bring their calculator manuals.

Environmental Issues: What do the Numbers Tell Us?

MPS-ENV Format A and C | Prerequisite: one year of algebra

Mathematics is the backbone to understanding and solving environmental issues, from energy generation to waste reduction. This course will put elementary algebra to use and build on students' algebraic skills by describing and analyzing relevant environmental problems with various mathematical techniques. Designed for students who will benefit from additional practice in manipulating algebraic expressions and who are interested in applying these skills in environmental scenarios. Topics may include: graphing energy production and consumption, analyzing data from government agencies, using systems of equations to optimize energy efficiency in buildings, and describing recycling and waste diversion with fraction operations. Students will have the opportunity to explore the local community with field trips to energy efficient buildings, recycling facilities, and renewable energy generation sites. Students will also study Exeter's campus and propose solutions to the environmental issues they observe as a final project that applies mathematics with an environmental focus.

Some of the work will require a graphing calculator or graphing software.

Problem-Solving in Algebra

MPS-FAL Format A and C | Prerequisite: one year of algebra

This class is for students who have successfully mastered the algebraic tools typically explored in a first-year algebra course. Through problem solving you will deepen your understanding of concepts and develop new algebraic tools. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Problem-Solving in Geometry

MPS-BGE Format B and D | Prerequisite: one year algebra that includes the study of systems of equations and quadratic equations

This class offers an investigative approach to geometry for students who have not had a formal geometry course. We will integrate algebraic concepts covered in previous study with new geometrical ideas. Student will use a calculator or computer software, as well as traditional manipulatives, as they delve into the material. As with all of our offerings, the focus will be on problem solving, rather than on memorization of theorems presented to the students. This course is not intended to cover the material of a full term's course at the student's regular school.

Any calculator is sufficient for this course.

Cryptography

MPS-CRY Format B | All Grades

In this course you will learn about the historical development of codes and ways to share information securely between two people. Students will compare the effectiveness and weaknesses of various types of codes and encryption keys. To understand mathematical underpinnings of both historical codes and modern public key encryption, you will explore some topics in statistics and more extensively topics in number theory including divisibility, prime numbers, and modular arithmetic.

Any calculator is sufficient for this course.

Problem-Solving: Fun with Probability

MPS-PRO Format D | Prerequisite: one year of algebra and one year of geometry

For students who like to be challenged in mathematics, this course provides an elementary introduction to probability with discrete variables through problem solving. We will start with entry-level problems to study/review combinations and permutations before moving on to more challenging

problems. Topics will include combinatorial analysis used in computing probabilities, the basic principles of probability, conditional probability, and geometric probability. Many interesting exercises will be presented for practice in class. This course is not intended to cover the material of a full term's course at the student's regular school, but rather to open a window to inspire students' mathematical curiosity and imagination.

Any calculator is sufficient for this course.

Introductory Problem-Solving in Trigonometry

MPS-PST Format C | Prerequisite: minimum one year of algebra and one year of geometry

Students will derive the concepts and identities of trigonometry by solving practical problems and by applying working knowledge of algebra and geometry. The class will explore such topics as the right triangle and circular definitions of trigonometric function, the Law of Sines, the Law of Cosines, and graphs of trigonometric functions. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Advanced Problem-Solving in Trigonometry

MPS-ADV Format C | Prerequisite: minimum one year of algebra and one year of geometry

This course focuses on analytic trigonometry, graphs of trigonometric functions in the coordinate plane, and more sophisticated applications of triangle trigonometry. Students will derive the concepts and identities of trigonometry by solving practical problems and by applying working knowledge of algebra and geometry. Understanding of concepts is developed through problem solving. The course assumes students are comfortable with principles of right triangle trigonometry, and additionally have had some exposure to the Laws of Sines and Cosines. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Statistics Through Simulation

MPS-STS Format D | Prerequisite: two years of algebra

This course will discuss the places where data comes from, such as polls, surveys, and experiments. Students will study how to organize data and infer relationships between variables. In studying probability, students will discuss the role of chance and randomness in outcomes. Through simulation, they will decide how closely the results of polls actually mirror reality and how far the results of experiments can be extrapolated to the wider world. There will be many activities in class, and students will use computers and calculators to display and analyze data. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Adventures in Problem-Solving

MPS-APS Format B | Prerequisite: two years of algebra and one year of geometry

This is a challenging course for students who like mathematics, have had at least two years of algebra and one year of geometry, and have found most of the problems presented to them in their regular math courses rather easy to solve. You will encounter a wide variety of unusual mathematics problems and will develop a fuller understanding of the various patterns and methods used in mathematical problem solving.To succeed in this course, students need to participate actively and be willing to persevere if their first attempts do not succeed. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Introduction to Discrete Math

MPS-IDM Format C | Prerequisite: two years of algebra and one year of geometry

By solving problems, playing games, and engaging in class discussion, students will encounter and explore some basic, but fundamental ideas and techniques of discrete mathematics. We will begin with an introduction to formal logic and methods of proof before turning to our main objects of study – sets, relations, functions, and graphs. Additional topics may include counting techniques, elementary number theory, recursion, Turing Machines, and applications of our results to the sciences. This course is not intended to cover the material of a full term's course at the student's regular school.

Any calculator is sufficient for this course.

Problem-Solving in Intermediate Precalculus

MPS-IPS Format A, B, C, and D | Prerequisite: two years of algebra, one year of geometry, including the study of trigonometry

This course is appropriate for students who have completed the equivalent of two full years of algebra and one year of geometry (including right triangle trigonometry). We will focus on extended topics that typically appear in a Precalculus or Functions course. Topics studied may include circular trigonometry, vectors, sequences and series, parametric equations, matrices, and logarithms. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Problem-Solving in Advanced Precalculus

MPS-PRE Format D | Prerequisite: precalculus or elementary functions including the study of analytic trigonometry

This class is intended for students who have completed a precalculus course. You will be presented with challenging problems that will deepen your understanding of what you have already studied and will introduce additional topics often not explored in a typical precalculus course. Examples might include complex numbers, sequences and limits, combinatorics and probability, and properties of functions. The course will enable students to discover new strategies for solving problems. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Problem-Solving in Calculus

MPS-CAL Format D | Prerequisite: precalculus including analytic trigonometry

This course is intended for students who have successfully completed a Precalculus course including Trigonometry. We will use an inductive approach – students will solve problems designed to foster a knowledge and understanding of the principles and applications of calculus. Depending on progress, some problems involving differential equations and/or integration may also be discussed. Topics might include: differentiation, implicit differentiation, related rates, optimization, anti-differentiation, accumulation of change (approximate and exact), and differential equations, including geometric and other applications. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Problem-Solving in Advanced Calculus

MPS-PAC Format D | Prerequisite: elementary single-variable calculus, including limits, differentiation, and integration

This course will address concepts typically found during a second semester college calculus course. Specific topics will be covered based upon progress and student aptitude and may include: a selection from parametric equations, polar coordinates, sequences and series, further integration techniques, and differential equations. These are topics in the College Board's AP BC syllabus. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Introductory Problem-Solving in Matrix Algebra and its Applications

MPS-MAX Format A | Prerequisite: a full and rigorous precalculus course, or higher, and strong algebra and geometry skills

This course is an introduction to the theory of linear algebra, the study of systems of linear equations and their solutions. The interplay between algebra and geometry affords powerful and quite different insights into both. Topics might include Gaussian elimination, matrices and geometric application, elementary matrices, linear transformations of eigenvalues/eigenvectors/diagonalization. This course is not intended to cover the material of a full term's course at the student's regular school.

Some of the work will require a graphing calculator or graphing software.

Science

Our goal in the Exeter Summer Science Department is to provide an experience that will motivate students to continue their studies in science and create a foundation of knowledge and skills for future coursework. All science courses emphasize the development of scientific concepts and problem solving skills. Teachers encourage and expect extensive student participation. Each course includes comprehensive laboratory work that develops skills such as analytical thinking, data analysis, and scientific writing. Our course offerings can be classified as introductory courses and enrichment courses. The introductory biology, chemistry, and physics courses provide you with important concepts and skills that will help prepare you for future coursework.

Introduction to Biology

SCI-ITB Format B | All Grades

This course is designed for students who have never taken a biology class, but are planning on taking one in the future. Topics covered include cell biology, microscopy, Mendelian genetics, molecular genetics, and unicellular organisms. Through readings, Harkness discussions, and cooperative laboratory exercises, students will developing the ability to integrate and apply what is learned in the classroom.

Introduction to Chemistry

SCI-CHE Format B and D | Prerequisite: one year each of algebra and physical science

This course is designed for students who are interested in chemistry and wish to study the subject through laboratories and class discussions. Students need to have completed one year of algebra and one year of a physical science course prior to taking this class, but no prior experience in chemistry is required. After this course, students will be prepared to study chemistry at a college-preparatory level. The course emphasizes the development of scientific thinking and collaborative problem solving skills through an empirical exploration of topics commonly taught in most first-term chemistry classes. These topics include classifying matter, measurement, modern atomic theory, the periodic table, atomic structure, bonding, chemical formulae, balancing equations, mole conversions, and stoichiometry.

Introduction to Electronics

SCI-ELE Format D | Prerequisite: one secondary level high school science course

This introduction to electronics is a hands-on, project-oriented course. Students will build, design, and analyze several analog circuits. Using Arduino™, students will interface their design to create useful circuitry.

Introduction to Physics

SCI-IPH Format A and C | Prerequisite: Algebra II and basic trigonometry

In this course students will be exposed to a sampling of introductory physics topics. Strong laboratory and mathematical components will help students learn how to observe and analyze physical phenomenon. The hands-on component of this course is designed to encourage student interest in physics and to give you a conceptual understanding of some fundamental physics topics. Possible topics of discussion and lab activities include motion in one-dimension, motion in two-dimensions, conservation of energy, electricity, magnetism, and properties of light and sound waves.

Advanced Biology

SCI-ABI Format C | Prerequisite: one year of biology

This course is designed for students who have completed a full year of introductory biology at the high school level and plan to take a year-long advanced biology course in the future. Through lab work and class discussions, we will emphasize a hands-on, collaborative approach to learning biology. Topics may include cell structure, Mendelian genetics, mitosis, meiosis, molecular genetics, cellular respiration, and ecology.

Advanced Chemistry

SCI-ACH Format C | Prerequisite: one year of chemistry

This course is designed for students with a strong interest in the physical sciences who are considering a career in science, engineering, or a medical-related field. Prior to enrollment, students should possess an understanding of stoichiometry from a previous chemistry course. Over the five weeks, students explore a variety of advanced topics chosen by the instructor based upon student input. Depending on student interest, study topics can range from analytical chemistry and thermodynamics to kinetics and organic chemistry. This class will employ laboratory exercises and class discussions to investigate chemical phenomena and develop scientific thinking skills.

Nuclear Science

SCI-NUC Format B | Prerequisite: one year of chemistry

This course explores the world of nuclear science and its applications, benefits, and risks of radiation. Topics covered include the atom and nucleus, the periodic table and chart of the nuclides, half-life and decay mathematics, radiation detection, naturally occurring radiation, nuclear reactions and energy, biological effects of radiation, and radiation protection and risk. Field trips to local facilities will provide first-hand insight into the use of radiation in industry, and detection of radiation sources. Labs will include building a Geiger counter, small-scale particle accelerators, and electroscopes.

Students who would like a deeper exploration of this subject might consider co-enrolling in *Modern Astrophysics*, *Relativity and Quantum Physics*, or *Advanced Chemistry*.

Current Topics in Environmental Science

SCI-CTE Format A | All Grades

This course is designed for students who have a passion for the environment and are interested in exploring current and future environmental issues. In this class students will use science to understand the impacts of human activity on the environment and the ripple effect that these activities create within societies and cultures around the world. Hands-on laboratory activities and field work will allow students to experience first-hand how data is collected and analyzed. Considering the controversial nature of many of these issues, class discussion and debate of current policies and solutions will be an integral component of the course.

Marine Biology

SCI-MBI Format A | Prerequisite: one year of biology at the secondary level

This course is intended to help you gain an understanding of the seas and discover how the work of the marine biologist is done. You will be introduced to concepts of the physical characteristics of the oceans and then conduct a detailed survey of the specific organisms (from sponges to whales) of the New England coastline. The ecology of intertidal coral reefs, salt marshes/estuaries, and deep sea communities is also introduced. Close proximity to the New Hampshire seacoast area provides opportunities for field trips to various ecosystems such as salt marshes, rocky coast tidal pools, and mudflats. Hands-on labs and the availability of the marine "touch tank" will supplement our study of marine protists, invertebrates, vertebrates, and mammals.

Human Physiology and Anatomy

SCI-HPA Format B and C | Prerequisite: one year of biology at the secondary level

This course will examine the structure and function of the human body. We will study the complexity of and interactions among major organ systems in order to gain a complete understanding of human physiological systems. Systems of study include digestive, cardiovascular, respiratory, and nervous. Laboratory investigations will include several dissections.

Modern Astrophysics

SCI-MAS Format C | Prerequisite: one year each of physics, algebra, and geometry

This is a rigorous science course for students who have had a year of physics as well as algebra and geometry. We will focus on the phenomena of the heavens and how we understand them. Throughout the course, our explorations will emphasize the thread of unity of the cosmos. We will begin with the creation of the universe as we think of it in the Big Bang and proceed to consider the origin of galaxies, stars, our solar system, and, finally, life itself. Lab work and observing from the Grainger Observatory are an integral part of the course.

Observational Astronomy

SCI-AST Format B | All Grades

This is a course for students without a strong science background. We will focus on observational astronomy, that is, what we have observed in the heavens and the methods we use for observation. You will be introduced to concepts of chemistry and physics, but the course does not require prior experience in these subjects. We will cover topics that include the solar system and the sun, stars, galaxies, and cosmology. Lab work and observing are an integral part of the course. Students will have the opportunity to observe the night sky from the Grainger Observatory.

Relativity and Quantum Physics

SCI-RQP Format A | Prerequisite: at least one year of physics and mathematics through Algebra II

In the late nineteenth century, bright students were discouraged from studying physics because there was nothing left to discover! Beginning in 1899, that attitude changed with the development of quantum theory and relativity, showing us that the world is a much stranger, more complex place than we had ever imagined. In this course you will explore the world of quantum and relativistic physics, along with even more modern ideas of string theory duality and particle physics. Topics may include wave/particle gravitation, black holes, and nuclear and particle physics.

Students who would like a deeper exploration of this subject might consider co-enrolling in *Modern Astrophysics* or *Advanced Chemistry*.

Sports Science

SCI-SPO Format B and D | All Grades

This course is for students interested in developing a more solid understanding of the science behind performance enhancement. It draws from many disciplines including physics, anatomy, physiology, biomechanics, and kinesiology as it explores the relationships among science, exercise, and sports activities. Through the study of the musculoskeletal and cardiovascular systems and evaluations of those systems as they relate to exercise and activity, students will be able to safely assess, design, prescribe, and update exercise programs. The goal of the course is to have students understand and produce a scientifically based training and fitness plan to help themselves and others more effectively prepare for the sport or activity of their choice. Lab-based, the course requires students to perform and measure simple activities. Students signing up for this course should have a keen interest in sports and/or physical activity.

Exploring Careers in Animal Science

SCI-CAS Format D | All Grades

This course is designed for students who love animals and are considering a profession working with them. In this hands-on class students will explore careers working with animals of all types from household pets (dogs and cats), to exotics (reptiles and birds), to large animals (cows and horses), to wildlife. Guest speakers and weekly field trips to experience these careers first hand is an integral part of the course. Students will perform a detailed analysis of careers with the goal of identifying what path they may want to follow in the future. Some of the careers explored with include veterinarian, animal behaviorist, research biologist, and animal breeder.

Genetic Engineering

SCI-GMB Format A and C | Prerequisite: one year of high school biology and a strong interest in laboratory work required, one year of chemistry also recommended

This course provides hands-on experience with some of the recombinant DNA techniques that have revolutionized biology and medicine. You will study the history of genetic engineering in both plants and animals and perform laboratory investigations to highlight this process. You will analyze DNA using gel electrophoresis, engineer bacteria to glow under UV light, and purify proteins using similar techniques to those used in the biotechnology industry. The class will discuss the ethical issues that are relevant in this new and changing field at the Harkness table.

Students who would like a deeper exploration of this subject might consider co-enrolling in *Transgenics*.

Transgenics

SCI-TRA Format D, plus lab MTThF | Prerequisite: one year of high school biology and strong interest in experimental lab work required

In this class students will partner with researchers from Stanford University to use cutting edge molecular biology protocols to change gene expression in transgenic fruit flies. Students will execute and troubleshoot procedures with the goal of testing how targeted loss of gene function affects organ development in fruit flies. Students will also maintain and cross their own fruit fly cultures.

Students who would like a deeper exploration of this subject might consider co-enrolling in *Genetic Engineering*.

Bioethics

SCI-ETH Format B | Prerequisite: one year of biology

This course is designed for students with a background in biology and a desire to explore its applications. It is difficult to predict the impacts that a particular scientific application may have on society, and whether its use is right or wrong. This class will explore the effects of applications currently in use as well as future impacts. Hands-on labs will enable students to experience a variety of applications first hand before examining current bioethical issues using current literature, media, and even science fiction. Topics will include genetic engineering, direct to consumer genetic testing, artificial intelligence, and gene therapy, among others. In addition to the issues discussed in class, students will research a topic of their choice to analyze and present.

Students who would like a deeper exploration of this subject might consider co-enrolling in *Genetic Engineering*.

The Charles J. Hamm '55 Leadership Program at Phillips Exeter Academy

Now in its twelfth year, this is a specialized UPPER SCHOOL program open to rising 10th, 11th, and 12th graders. Admission to the program is limited and selective. In the *Leadership Program* you will be immersed in a learning environment designed to foster opportunities to reflect upon the characteristics and contexts that enable effective leadership. Towards this end, the program will incorporate traditional academic coursework as well as workshops, speakers, case studies, and group projects that will encourage you to discover and cultivate your own leadership potential both on the Exeter campus and within the surrounding communities.

As part of the *Leadership Program*, you will be required to take two classes: *Leadership & Society* and *The Practical Leadership Seminar*. In addition, you will enroll in one other class of your choice in the "C" or "D" format. This class will enable you to tailor the program to fit your own interests and leadership goals. You should expect to spend additional time outside the classroom with workshops, films, speakers, group projects, and excursions. Key aspects of leadership that this program seeks to develop include personal confidence, successful oral and written communication, awareness of context, ethics, decision-making, conflict resolution, problem solving, group dynamics, the relationship between leaders and followers, and an understanding of various leadership theories and models. Although what happens in the classroom around the Harkness table is crucial to each student's understanding of what leadership means, the *Leadership Program* offers opportunities for further self-development within the context of hands-on activities such as capstone projects, excursions, and the Public Speaking Workshop. ***Because of the rigorous nature of this program, students must have a high proficiency in English to be considered for the Leadership Program.***

Capstone Projects

Each leadership student will become a member of a capstone team tasked with impacting the Exeter Summer community in a meaningful way. In previous summers, groups have coordinated Environmental Awareness campaigns, held concerts in the student center, organized a "Speed Friending" event, or made a video memorializing the Exeter Summer experience. These projects are intended to be cooperative efforts where each team member is equally involved in accomplishing an overarching goal. Through this process students will learn to develop a variety of skills including setting a goal, forming an agenda, time management skills, conflict resolution, resource allocation, and coordinating teamwork.

Excursions and Workshops

As part of the Leadership Program students will be taken on excursions to places such as a ropes course, where students will challenge their critical thinking and team building skills, and a trip to visit a collegiate program at institutions like Dartmouth College or Harvard University. Students also travel to Boston to the John F. Kennedy Library or Edward M. Kennedy Institute for the Senate, which helps bring to life topics students will study in the classroom. Additional activities such as the *Public Speaking Workshop* will focus on specific skills that play a central part of successful leadership.

Two Core Classes:

Leadership & Society

In this course you will begin to explore the variety of views about what leadership is and what leaders do. We read selections from leadership scholars as well as the leaders they study, including Machiavelli, Martin Luther King Jr., and Winston Churchill. We will discuss varied leadership topics such as leadership traits, power and influence, followership, situational leadership, ethics, and "bad" leadership. The class will also take a look at issues of inclusiveness in leadership and the influences of both culture and gender. You will conclude the summer by developing your own leadership philosophy and a long-term plan for your continued leadership development.

The Practical Leadership Seminar

This seminar is designed to help bolster personal leadership skills. Through workshops, guest speakers, case studies, and fieldwork, you will reflect upon your own potential strengths and weaknesses as leaders, explore how to best operate in an organizational setting, and develop strategies to cultivate your potential for leadership and for active following. By providing a framework for exploring the contexts and skills necessary to practice successful leadership, this seminar will allow you to develop your capacity for public speaking, critical thinking, conflict resolution, decision making, community building, and teamwork. Ultimately, the seminar intends to create a supportive and reflective environment within which you can enhance your capacity for leadership.

Choose (1) One Elective in C or D format.

Suggested Electives

In addition to the two core classes, the *Leadership Program* also recommends the following electives. Although students are not required to select their third class from one of these electives, these classes are suggested because their topics complement the themes and issues of the core Leadership Program classes.

- Global Justice HUM-JUS (C format)
- Debate & Argumentation EWS-DAA (C format)
- Social Psychology SPS-SOC (C format)
- Leadership for a Better World SSC-LBW (D format)
- Leadership in Athletics SSC-LIA (D format)
- United Nations: Global Community SSC-UNN (D format)

SAT Preparation with The Princeton Review®

The Princeton Review® SAT® Ultimate Course

At the Princeton Review, our philosophy goes beyond "tips and tricks" to cover everything students need for the best possible SAT preparation. From content-area instruction by certified instructors, to strategies for tackling the form and structure of the SAT, to diagnostic tests that reflect what students will see on test day—in an environment designed to mimic the real test—participants in this course will gain confidence, improve their skills and knowledge, and reduce their test-taking anxiety.

Our SAT prep courses are fully customized to match the learning needs of the unique group of students in each class. We use data, classroom observations, and student interactions to gauge individual students' capacity as well as the overall learning needs of the course participants. Then, we customize the syllabus of every course to engage students with creative, application-based activities to confirm their understanding and allow them to continue to develop the skills and knowledge they need to reach their full potential on the SAT. Our courses are delivered with intuitive, flexible, and fully transparent content designed to enable the learners to take ownership of their experience, to easily and frequently see their progress through that learning, and to provide regular and ongoing feedback on performance. Please note that this supplementary course requires an additional fee. **Please note that this supplementary course requires an additional fee.**

The SAT course does not fulfill the three-course load requirement for UPPER SCHOOL residential students. UPPER SCHOOL day students must enroll in at least one other course before signing up for this class.

SAT Preparation

ECC-SAT Formats A, B, C, and D | All *Grades*

The Princeton Review's five-week course is designed to prepare students applying to college for the SAT. The program includes 25 hours of classroom instruction and two proctored practice SAT tests. Participants will also be given 365 days of access to The Princeton Review's online student portal, which includes personalized SAT score reports that pinpoint strengths and areas for improvement, an individualized test prep plan that adapts as students make progress, and over 2,000 review questions with detailed explanations plus additional practice tests, drills, video lessons, and more.

www.princetonreview.com

Please Note: **It is recommended that each student bring a calculator for the math portion of the instruction and for the diagnostic tests. Any four-function, scientific, or graphing calculator is acceptable for the SAT.**

Extracurricular course fee: $995*

*Fees are NOT refundable once the Exeter Summer program has started.

UPPER SCHOOL Physical Education Classes

Physical Education, an important component of Exeter Summer, promotes fitness, cooperation, sportsmanship, and the learning of new skills. The offerings are designed to introduce fundamental rules and skills, provide some competition and recreation, and stimulate long-term participation in athletics.

All UPPER SCHOOL boarding students participate in a sport for at least one hour four afternoons per week (Monday, Tuesday, Thursday and Friday) between 2:00pm and 4:00pm. **Note: Physical Education is optional for UPPER SCHOOL Day students. Sports are optional for day students.** There are two 2-½ week sessions with students taking one sport per session; students will select the sports of their choice during the application process. First session runs from July 7 through July 21 and the second session runs from July 23 through August 6. It may not be possible for all students to get their first choice for both sessions; however, we will make every attempt to enroll students in a preferred activity in one of the sessions.

Equipment will be supplied for some activities, but students should bring their own athletic attire. ***Refer to the individual class descriptions for special equipment and/or attire requirements.***

The Director of Athletics supervises the programs and classes are taught by professional Physical Education instructors. We strongly encourage students to explore new sports activities during Exeter Summer.

Basketball

This class will provide experiences intended to improve students skills and understanding of the game of basketball. They will participate in drills and exercises that will lead to competitive play.

Competitive Basketball

Students will be organized into teams that will play a competitive game each day and will play a round robin tournament with a game each day. Physical Education Instructors will officiate and direct the competition so that students will have the opportunity to improve their skills in a competitive, recreational environment.

Cross Country Running

Students will improve their cardiovascular fitness and their physical strength through daily runs on the fields, in the woods, and throughout the campus and town of Exeter. Students will learn a series of stretching movements for warm-ups and cool-downs. The class is structured for both the novice runner as well as the serious, competitive runner.

Proper footwear is required.

Introduction to Crew

Students will learn the fundamental movements and strokes required in Crew. They will learn to work independently and cooperatively to propel the barge that is used for novice rowers.

This class is limited to 12 students per session.

Introduction to Dance

In this fun introduction to dance class, students will have the opportunity to learn different dance techniques including modern jazz, hip-hop, musical theater, video dance, and more! No prior dance experience is necessary!

Lacrosse

The fundamentals of lacrosse are taught through drills, exercises, and small team recreational play. The class is intended for students with little or no previous experience as well as those who desire to improve their fundamental skills. The class is non-contact and coeducational.

Lacrosse sticks will be provided.

Soccer

This class is designed for students who would like to learn or improve their skills in a competitive, recreational environment. Students will be organized into teams and will play a round robin tournament with a game each day. A Physical Education Instructor will officiate and direct play in order to help each student improve during the session.

Squash

The squash class is structured to teach beginners, as well as those with some previous experience, the basic strokes and tactics of the game. Students will progress to the point where they will be able to play a competitive match. Racquets, balls, and eye-protection will be supplied, but ***non-marking, non-black soled shoes are required.***

Ultimate Frisbee

This class is a non-contact team sport played with a flying disc (frisbee). Simple to learn and fun to play, students will be challenged both physically and mentally. They will be physically active, play cooperatively, and compete in a non-traditional team game.

Volleyball

This class is structured to provide experiences for beginning, intermediate, and experienced players who are looking to improve their skills in the game of volleyball. Drills and exercises in the fundamentals and proper techniques daily will lead to competitive play as the class progresses.

Students may sign up for only one 2-½ week session.

Walking

This class provides daily fitness exercise in a non-competitive setting. Excursions each day will venture around the fields, through the woods, beside the river, and through the community of Exeter.

Proper footwear is required.

Weight Training

This program will introduce students to our fitness facility and the fundamental principles of cardiovascular and resistance training. Instruction is given on the basic mechanics of movement, physiology of exercise, the role of stretching, and the use of heart rate/target zones for training. Daily activities are based on individual student goals with emphasis on the development of life-long fitness habits.

Yoga

This class is structured to provide a gentle series of exercises and stretching that will involve warm-ups, strengthening of abdominal muscles, back and core, standing postures, and relaxation and recovery. The maneuvers will be set to popular music as well as classic yoga relaxing music and will emphasize "breath to movement" theme.

Learn to Swim

This class is designed for students who are non-swimmers and who want to learn to swim. They will be taught basic lessons in floating and fundamental swimming strokes to increase their comfort level in the water.

Proper swimwear is required.

Fitness Swimming

This class provides a program to improve a student's fitness and over all well-being through swimming. The goal will be to achieve cardiovascular fitness through stroke development and participation in a variety of swimming workout methods.

Proper swimwear required.

Competitive Swimming

This class is intended for students who are serious swimmers and who desire to train daily for competitive swimming. The class will be structured to assist the students in personalizing their programs to maintain or improve their performance during the summer.

Proper swimwear is required.

Beginner Tennis

This class is designed for students who have either very limited experience or no knowledge in the game of tennis. Students will learn and practice the basic racquet skills and strokes. Students will also learn the basic rules so they can progress to playing both singles and doubles matches.

Proper footwear is required.

Intermediate Tennis

This class is designed for students who have already learned the basic skills and rules of tennis. Students will be evaluated at the onset of the class and placed in smaller groups based on ability and experience. After evaluation and limited instruction, students will progress to singles and doubles competitive matches.

Proper footwear is required.

Competitive Tennis

This class is for students who have experience playing tennis and who wish to play competitive matches each day. Students must have the skill, knowledge, and experience to play competitively against players of a similar ability.

Proper footwear and a racquet are required.

Advanced Competitive Tennis

This class is for top-level tennis players who have the skill and knowledge to play a high level of tennis. Students will play a singles or doubles match each day and a competitive ladder will be established.

Proper footwear and a racquet are required.

NOTE: UPPER SCHOOL students may elect, for a fee, to enroll in Exeter Crew Club, Exeter Soccer Club, or Exeter Volleyball Club as their sports option for the entire five weeks of Exeter Summer. If you want to participate in one of these elective sport programs, make sure to select your option from the sports dropdown menu on the application.

Exeter Crew Club

Exeter Summer offers Exeter Crew Club as a special intensive program that students may choose in place of the regular sports program. Students train for two hour sessions four times a week (Monday, Tuesday, Thursday, and Friday afternoons) for the entire five weeks of the summer program.

Experienced coaching staff train students in the Saltonstall Boathouse and students row sculls on the tidal Squamscott River.

We offer two levels:

Beginner/Novice – This option will allow students who have never rowed before to participate in crew. The five-week program will be dedicated to teaching the finer aspects of the rowing stroke as well as general fitness.

Experienced Skills Program – This option offers a more intensive program for experienced rowers. Students will be given highly detailed technical coaching as well as a more rigorous training plan to prepare student rowers to return to their home teams a better oarsperson.

Extracurricular course fee: $995 which includes an Exeter Crew top and baseball cap. This special program takes the place of the regular Physical Education classes.

If you want to participate in this program, select *Exeter Crew Club* in the sports dropdown menu on the application.

Exeter Soccer Club

Exeter Summer offers Exeter Soccer Club as a special intensive program that students may choose in place of the regular sports program. Students train for 90 minute sessions four times a week (Monday, Tuesday, Thursday, and Friday afternoons) for the entire five weeks of the summer program.

The program is designed to improve a player's skill, ability, and tactical understanding of soccer. Through an assortment of drills and games, students will develop in a variety of ways including their passing range and accuracy, first touch, dribbling skills, 1v1 defending, crossing and finishing abilities, team attacking, and team defending.

A pair of cleats (no metal bottoms) are required. Turf shoes are optional.

Extracurricular course fee: $850 which includes a training shirt. This special program takes the place of the regular Physical Education classes.

If you want to participate in this program, select *Exeter Soccer Club* in the sports dropdown menu on the application.

Exeter Volleyball Club

Exeter Summer offers Exeter Volleyball Club as a special intensive program that students can choose in place of the regular sports program. Students train for 90 minute sessions four times a week (Monday, Tuesday, Thursday, and Friday afternoons) for the entire five weeks of the summer program.

The program is designed to increase the ability and skill of all participants. All player levels are welcome. The focus is on the fundamentals (pass, set, hit, block, and serve) and perfecting techniques.

Other skills taught include: cover float serving, top spin serve, jump float, and jump spin serving; and the proper techniques in: forearm passing, overhead passing, and overlap rules of the game. Instruction on blocking systems and footwork commonly used in the collegiate and professional game is given. Students are also taught a 3-step approach and work on hitting a variety of setting tempos. Players will increase their volleyball IQ and ball control through drills, games, and play.

Players should bring proper athletic clothing and shoes; kneepads are optional.

Extracurricular course fee: $850 which includes a training shirt. This special program takes the place of the regular Physical Education classes.

If you want to participate in this program, select *Exeter Volleyball Club* in the sports dropdown menu on the application.

Extracurricular Activities

Music Activities

Extracurricular music activities are organized for students who wish to employ their talents and pursue their interests outside of the formal musical performance classes. We encourage students to bring their musical instruments and to join one or more of the vocal or instrumental groups.

You will sign-up for these free extracurricular music programs when you arrive on campus.

Jazz Jam - Open to the entire Summer community who have previous experience playing jazz. This group provides an opportunity to sharpen improvisation skills with other musicians who have similar interests in the blues and other standard tunes. Novices are welcome to attend to listen, support the players, and participate when they feel comfortable. Participants are welcome to "sit in" on a final session and concert the last week of classes. ***Meets one evening for one hour each week***

Evening Ensembles - All interested students are encouraged to participate. This group provides coaching and accompaniment of solos. Auditions for forming chamber groups will be held during the first week of the session. ***Meets two evenings for one hour each week***

Glee Club - Open to the entire Summer community, this group sings and performs music from a wide range of traditional and contemporary music. ***Meets two evenings for one hour each week***

Private Music Lessons

The Academy offers lessons in voice and a variety of instruments. ***Students who wish to take music lessons should indicate so on the application and must apply by May 1, 2020.***

Cost for Private Music Lessons:

$375 for five 50-minute lessons

$225 for five 25-minute lessons

Free Extracurricular Course Offerings

Space is limited and students may only sign-up for one of these classes. After acceptance into the program, interested students should send an email to summer@exeter.edu by May 1, 2020.

Introduction to Mindfulness

This 4-week class will introduce you to the practice of mindfulness. Several very useful skills, including meditation, which can help with stress management and living a more open and full life, will be taught. Research has shown that practicing mindfulness over time can help with improved sleep, enhanced learning, resiliency, and maximizing one's potential. This hour-long class is highly structured and requires a commitment to attend all four weeks. It involves keeping a daily log and committing to a mindful practice of your choice for 10 minutes a day. Fun, interactive, and very useful for our busy lives, this class is a wonderful way to strengthen your ability to focus and gain perspective on the stresses of everyday life. All experience levels welcome. ***Meets one evening for one hour each week***

Bridging Cultures Tool Kit

In this class we will learn and practice techniques to increase our cultural intelligence – that is, our ability to move between different cultural contexts with ease. Each week we will add a strategy to our repertoire for communicating effectively and respectfully with people whose assumptions or upbringings might be different from our own. At the end of the summer, you will have a stronger understanding of your own identity, and a toolbox for talking to other people about their backgrounds and identities. Everyone is welcome. ***Meets one evening for one hour each week***

Student Activities

The Student Activities Office provides students with a variety of educational and leisure outings particular to New England. Trips are scheduled on weekends and Wednesday afternoons. Exeter Summer charges a user fee rather than a blanket charge included in the tuition. The user fees are based on cost of admission (where applicable), the cost of transportation, and administrative expenses. We also offer a number of no cost on-campus activities throughout the summer. We will continue to enhance these activities in response to students' ideas.

Examples of possible trips and estimated fees:

Blueberry Picking	$7
Boston Common	$35
Burlington Mall	$15
Cambridge (MA)	$20
Canobie Lake Amusement Park	$50
Currier Art Museum	$25
Downtown Portsmouth	$15
Fox Run Mall	$15
Mall of NH	$15
Merrimack Outlets	$15
Mini Golf	$20
Mt. Major Hike	$15
Museum of Science	$40
Neon Bowling	$20
O'Neil Cinema Trip	$20
Rockingham Mall	$15
Target Trip	$5
Water Country Water Park	$50

On-campus free events have included:

Dances
Dodgeball Tournament
Exeter's Got Talent
Karaoke
Magician
Movies
Welcome Carnival

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