

# EXETER SUMMER

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ACCESS EXETER<sup>®</sup>

(STUDENTS CURRENTLY IN GRADES 7 AND 8)

2020 COURSE CATALOG

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PHILLIPS

EXETER

ACADEMY

# Exeter Summer

2020 ACCESS EXETER® COURSE CATALOG

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# ACCESS EXETER

Each ACCESS EXETER Cluster is made up of three academic courses. It is important that you carefully select your first, second, and third cluster choices when completing your application as it is impossible to honor all first choices. Requests for a cluster change must be made by a parent/guardian via email to Exeter Summer before May 1. Reassignment into another cluster is based upon availability. **The Exeter Summer Office will not accept requests for course changes by phone. No cluster changes will be made after the start of the program.** All ACCESS EXETER boarding students participate in a sport for at least one hour four afternoons per week (Monday, Tuesday, Thursday and Friday) between 3:00pm and 6:00pm. **Note: Physical Education is optional for Day students.** All students may, for a fee, enroll in private music lessons, the SSAT Prep course, or replace the two sessions of sports with Exeter Crew Club, Exeter Soccer Club, or Exeter Volleyball Club. ACCESS EXETER students may also participate in musical or choral groups. All ACCESS EXETER

students are required to participate in at least one academic day excursion during the session. Each ACCESS EXETER student will be enrolled in one of the following academic clusters:

1. **Creative Design and Purpose for a Changing World**
2. **Land and Sea: Exploring the Power of the Natural World**
3. **Problem-Solving: An Odyssey of the Mind**
4. **A Global Community**
5. **The Creative Arts: Let Your Spirit Soar**
6. **Exeter CSI: Crime Scene Investigation**
7. **The Shape of Things**
8. **Classics: Exploring the Ancient World**
9. **Kind by Design: Make it Big in a Good Way**
10. **Movie Time: Exeter’s Filmmaking Academy**

## DAILY SCHEDULE SAMPLE FOR ACCESS EXETER

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Brunch 9:00 - 12:30	Breakfast 6:45 - 8:45	Breakfast 6:45 - 8:45	Breakfast 6:45 - 8:45	Breakfast 6:45 - 8:45	Breakfast 6:45 - 8:45	Breakfast 6:45 - 8:45
	A-Format 8:30 - 9:20	A-Format 8:30 - 9:20	A-Format 8:30 - 10:00	A-Format 8:30 - 9:20	A-Format 8:30 - 9:20	B-Format 8:30 - 10:00
	B-Format 9:25 - 10:15	B-Format 9:25 - 10:15		B-Format 9:25 - 10:15	B-Format 9:25 - 10:15	
	Assembly/ Meetings 10:20 - 11:05	Snack Time 10:20 - 11:05	C-Format 10:05 - 11:35	Snack Time 10:20 - 11:05	Residential Life 10:20 - 11:05	D-Format 10:05 - 11:35
	C-Format 11:10 - 12:00	C-Format 11:10 - 12:00		C-Format 11:10 - 12:00	C-Format 11:10 - 12:00	
	D-Format 12:05 - 12:55	D-Format 12:05 - 12:55	Lunch	D-Format 12:05 - 12:55	D-Format 12:05 - 12:55	Lunch
	E-Format 1:00 - 2:15	E-Format 1:00 - 2:15		E-Format 1:00 - 2:15	E-Format 1:00 - 2:15	
	F-Format 2:20 - 3:35	F-Format 2:20 - 3:35		F-Format 2:20 - 3:35	F-Format 2:20 - 3:35	
PE 3:00 - 6:00	PE 3:00 - 6:00	PE 3:00 - 6:00		PE 3:00 - 6:00		
Dinner 5:00 - 7:00	Dinner 5:00 - 7:00	Dinner 5:00 - 7:00	Dinner 5:00 - 7:00	Dinner 5:00 - 7:00	Dinner 5:00 - 7:00	Dinner times may vary
Dorm Check-in 8:00	Dorm Check-in 8:00	Dorm Check-in 8:00	Dorm Check-in 8:00	Dorm Check-in 8:00	Dorm Check-in 8:00	Dorm Check-in 11:00

Lunch is served Monday–Friday from 11:30 a.m.– 2:00 p.m.

## Cluster One

# Creative Design and Purpose for a Changing World

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How can we unite creativity, scientific design, and justice to change the world and take better care of our environment? In this cluster students will learn about our natural resources and explore renewable energy through problem solving in a multi-science class. At the same time, they will be challenged to turn recycled materials into art by connecting with nature, and to explore ways to use political power and strategic persuasion to influence positive changes in their communities so they can become leaders that will make a difference in the world.

## Energy and Innovation

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### SCI-EAI

In this multi-science course, you will investigate biological, physical, and chemical aspects of Earth's working systems and energy alternatives through hands-on discovery. In the field and in the lab, you will use computer probes, microscopes, and lab tools to conduct experiments that simulate global processes that include greenhouse effect, ocean acidification, albedo effect, decomposition, and carbon sequestration. Your curiosity and creativity will be sparked as you problem-solve to model and test your own re-designs of existing alternative energy technologies, making them greener and more efficient.

## Political Science: Power, Persuasion, and Positive Change

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### SSC-PPP

Addressing any problem begins with recognizing it! You understand that the clock is ticking to develop and implement strategies for living in cleaner, safer harmony with our environment, but where do you begin? The future is yours and you have the power to shape it! In this course, you will investigate global issues facing the world today and how people, from individuals to institutions, initiate lasting change in their communities. Furthermore, you will create your own political community at the Harkness table that will inspire you to learn by doing. You will both discuss and put into practice creative and persuasive ways

to influence policymakers, corporations, local businesses, and community organizations that will include newspaper articles, public displays, and public opinion surveys. The lessons of this course do not end when you leave Exeter; the benefits will follow you home and last a lifetime.

## Art: Transform the World

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### SAR-TTW

In this studio class we will develop our creative powers. Drawing on natural sciences, a wide range of arts, and mythologies from around the world, we will engage with perspectives of life on Earth, both old and new. These ideas inform our creations. Our materials will be newspapers, recycled cardboard, and other things that are often discarded. Working with our hands, scissors, glue, paste, and paints we will transform scraps and trash into objects revealed. Evening assignments will include personal sculpture and painting studies, with some visits to the library stacks. In this course you will discover your artistic aptitude, learn about form, image and technique, and collaborate to create pieces for the final Student Art Exhibit.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Two

# Land and Sea: Exploring the Power of the Natural World

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The Land and Sea Cluster leads students on an in-depth study of Marine Biology, Survival Literature, and Visual Art. Through these courses students will come to understand the symbiotic, yet sometimes volatile, interactions between humans and nature. What are the unique challenges marine organisms face compared to their terrestrial counterparts? What has the growth of the human population done to marine ecosystems? When does nature fight back? Why are artists frequently inspired by the natural world? Careful study of these questions through reading, discussion, and hands-on learning in the studio, lab, and at the rocky intertidal coast will leave students inspired by the fascinating connections between the land and sea.

### Literature and Film

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#### *EWS-LAL*

The literature and film course is designed to open the doors to the world of nature and its unpredictability and power. You will experience both the serene and the turbulent aspects of Mother Nature. Sensory experiences will be reflected through your writing as well as an integral part of discussions. Through novels and film you will journey outside of the classroom where the power of nature over mankind takes you to places and situations unimaginable.

### Marine Biology

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#### *SCI-MBA*

Our oceans are the lifeblood for planet earth. They drive our weather, supply oxygen and food, and offer hints at how life on earth may have started. And yet they remain vastly unexplored, harboring new discoveries and challenges to existing theories almost daily. In this course we will examine the power and mysteries of the world's oceans and its inhabitants through text, film, and hands-on exploration. Interdependence will be an overarching theme in this course

as we study the close relationships organisms have with one another and their environment. Taking advantage of the beautiful New Hampshire coast just miles away, you will learn about the specific organisms of the New England rocky shore and familiarize yourself with the ecology of the complex intertidal ecosystem in which they live. Additional marine ecosystems, including coral reefs and deep sea vents, will also be explored. Weekly readings and discussions will challenge you to apply your understanding of marine ecosystems and processes to contemporary issues facing our oceans.

### Art: A Force of Nature

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#### *SAR-OIN*

The natural world is constantly changing and growing; maybe it is time for you to unleash your own forces of nature through art. Students of all levels explore and create with nature as the guide, the inspiration, and even the canvas. Experiment with a variety of media and techniques – drawing, painting, relief carving, and outdoor sculpture. Stretch your skills and creativity through readings, group collaboration, skill-building exercises, and place-based projects. During the final week students have the opportunity to display their artwork at the Student Art Exhibit in the Lamont Gallery on campus.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Three

# Problem-Solving: An Odyssey of the Mind

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In our ever-changing world, we are confronted with problems that are increasingly complex and often lack clear solutions. To address these problems, we need to learn new approaches and become more agile problem-solvers. In this cluster, through the disciplines of robotics, computer science, and mathematics, students will learn how to implement a variety of problem-solving techniques involving creativity, collaboration, and abstract thinking.

### Robotics

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#### *SCI-ROB*

Physicists observe the workings of the world and then use mathematics and abstract thinking to try to explain what they have observed. In this course, you will have the opportunity to look at the world as the physicist does—to observe, measure, ask questions—to use abstract thinking to solve a variety of problems. Your readings and discussions will carry you into analysis of Newton’s laws of motion and give you glimpses into the world of Quantum Theory and Einstein’s Special Theory of Relativity. Using LEGO® MINDSTORM™ products, you will learn to apply physics concepts to robotics. The robots you build will interface with computers to analyze motion and generate graphs. Finally, you will design and create individual robots for competition in the grand challenge of Robotic Pizza Delivery.

### Problem-Solving and Mathematical Modeling

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#### *MPS-PMM*

We use the language of mathematics to help us unlock the secrets of the patterns we observe in the world around us. This course is designed to help students grow as independent thinkers and learners through the exploration of creative strategies for solving involved, non-routine math problems (many of them having to do with important yet deceptive patterns). An emphasis will be placed on collaborative work as students brainstorm and exchange ideas with their peers, taking advantage of the different perspectives each brings to the table. Students will be challenged to work on and improve their explanation skills through in-class discussions and graded problem-sets. The topics covered will include permutations and combinations, basic probability, recursion, and some introductory number theory.

### The Fundamentals of Computer Programming

#### *CMP-FCP*

Computers are the way we work and play. With computers we can travel through space, design and build better cars, and predict the weather. Computers are amazing, but the computer hardware itself is only half of the story. What really makes a computer so useful is its flexibility. The same computer can be used to design cars and to play games and chat with friends over the Internet. The difference is the software. In this course you will learn how to create simple software programs that will allow you to investigate and solve problems in math, physics, and statistics. You will use the power of the computer to run simulations that model real-life events. Ultimately, you will discover how the computer can be used to help you better understand what is going on in the world around you.

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

## Cluster Four

# A Global Community

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Every day the world becomes more connected as we turn into one big community. As a group of global citizens gathered around the Harkness table, students will sample five languages, read world literature (in translation), and grapple with global issues such as apartheid, ethnic cleansing, world hunger, and the many consequences of globalization. This cluster offers discussions and debates, group projects, reading and writing, and the excitement of making new friends from around the world.

### Dipping into Five Modern Languages

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#### *LNG-FML*

In this course, you will have the opportunity to sample five modern languages: Japanese, French, German, Korean, and Russian. Teachers will provide you with a basic introduction to the various languages and cultures. Through conversation and hands-on activities, you will learn greetings and simple dialogues for everyday situations. You will also learn about the traditions of people who speak the languages, including their music, dance, and food. Given the multicultural realities of the world in the twenty-first century and the globalization of ideas and economies, language study is indispensable. Sampling some of the world's many languages will be both challenging and fun. The intent of this class is to help you make informed decisions about future language study.

### The World's Literature

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#### *EWS-TWL*

The World's Literature course works in tandem with the Dipping into Five Modern Languages class. For example, in a week when you are learning Russian or French, you may be reading short stories by Anton Chekhov or Victor Hugo (in English translation, of course!). At the Harkness table, you will discuss literature originally written in Russian, Japanese, French, Korean, and German. Working closely with your peers, you will learn to participate in a Harkness table discussion. In addition, you will have many opportunities to develop your critical reading and writing skills as you work on a wide variety of expository and creative writing assignments that go along with the nightly readings.

### Contemporary Global Issues

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#### *HUM-CGI*

The nightmare of September 11, 2001 still has ramifications far beyond the initial moments of destruction. Suicidal terrorists transformed commercial airliners into flying missiles of destruction. Thousands of lives were lost; hundreds of thousands of lives were changed forever. The circles of economic and political consequence stretch ever outward. This ethics course will allow you to examine a wide range of global concerns, from terrorist assault to the fragility of the environment, from ethnic cleansing to apartheid, from economic recession to world hunger. In seminar discussions, you will raise questions and share observations with classmates equally engaged in collaborative discourse. In your research and writing, you will examine those issues you find most compelling.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Five

# The Creative Arts: Let Your Spirit Soar

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How can we tell stories? The Creative Arts Cluster allows students to explore narrative and tell their own stories through performing, visual, and literary arts. In *Ceramics*, students will gain basic hand-building and wheel-throwing techniques that will produce a final visual narrative to be displayed in the student art show. Students in *Invitation to Theater* will focus on the four main skills of the actor – Voice, Imagination, Movement, and Empathy – and utilize these skills in the creation of characters for a play they will perform in the final week of the program. *Creative Writing* rounds out the cluster with reading and writing poetry, short stories, and personal essays that explore the relationships between form and meaning thus preparing students to author their own narratives.

### Ceramics

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#### *SAR-PCS*

This course explores mixed surface treatments used in ceramics providing a new medium to bring forth your perspective through shape and form. Working with the expressive qualities of hand-formed clay, the lines and textures of the brush, and the experimental opportunities of mixed media glaze applications, we will shape and reshape our visions of the world that surrounds us. During class, we will discuss ways to convey spirit, narrative, and perspective through experimental forms and careful techniques. At summer's end, you and your classmates will produce a three-dimensional narrative made from clay, which you will share with one another and with the broader community at the Student Art Exhibit in the Frederick R. Mayer Art Center on campus.

### Creative Writing

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#### *EWS-ACW*

The verb *to write* derives from the Old English *writan*, which means to scratch, draw, inscribe. As a student in the *Creative Writing* class, you join a small community of scribblers, classmates who – like you – love the sight of a stack of clean,

white sheets of paper. As you scratch down words, creating your own stories, poems and personal essays, you discover the joys of writing as you allow your imagination to roam through new perspectives, forms, and expressions. During Harkness discussions, you will read one another's drafts, discuss the rhythms of the prose, consider the connotations of word choices the author has made, and imagine possible directions a second rendering might take. Your reading will include the works of contemporary poets and short story writers. By the end of this course, you will publish your own writing portfolio consisting of a collection of work carefully drawn, scratched, inscribed onto sheets of clean, white paper.

### Invitation to Theater

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#### *SDD-ITT*

In this course you will learn about the basics of theater with an emphasis on acting. As you hone skills of memorization and monologue portrayal, you will adopt new perspectives that lead you to challenge yourself to truly enter the mind of the character you are portraying. You will audition for your class performance and learn vocabulary about acting and theater through workshops and games, eventually working toward a final performance at the end of the summer. In learning about blocking, projection, diction, and tone, you will examine new ways to unlock the human spirit – both your character's and your own – while productively honing your craft as an actor and theatrical thinker.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Six

# Exeter CSI: Crime Scene Investigation

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Within the CSI cluster, students become critical thinkers by solving a crime using the scientific investigative practices learned in *Forensic Science*. Additionally, students will read and analyze stories that define the genre known as “detective fiction”. Students will also study the medium of photography, explore composition and learn photo-editing using Adobe® Photoshop®. The day-trip excursion will provide an opportunity for students to meet other members of the CSI cluster and become better investigators and observers.

### Detective Fiction

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#### *EWS-DET*

During this five week reading and writing intensive course, students will immerse themselves in the popular genre of Detective Fiction. At the Harkness table, we will come together to discuss and analyze a variety of works by authors such as Edgar Allan Poe, Sir Arthur Conan Doyle, and Raymond Chandler. Whether solving the case alongside the amateur detective or with the private investigator, we will navigate the world of crime and investigation through the eyes of great detectives. By bringing questions and quotations from their daily reading, students will delve deeper into the life of the detective--and even the criminal--as they decide who ultimately can and cannot be trusted.

### Forensic Science

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#### *SCI-FOR*

Imagine you are a crime scene investigator and have just arrived at the scene of a terrible murder. A young woman has been killed, and though her apartment has been ransacked, the killer has been very careful to hide his identity. Hours of painstaking investigation yield only two small pieces of evidence: a human hair and a drop of blood. Years ago, such minute evidence might have foiled police efforts to find the culprit, but contemporary science offers keys to unlock microscopic evidence that may solve the crime. Today, forensic scientists can examine the hair and blood samples to reveal the killer’s DNA. In this course, you will study the techniques used in the forensic laboratory and learn about the scientific principles basic to those research techniques. You

will explore the world of DNA structure and function, blood-typing and inheritance, DNA fingerprinting, and forensic anthropology. You will examine case studies of actual crimes and trials and you will meet professionals in various fields of forensic science who will share their “real-life” Crime Scene Investigation experiences with you.

### Introduction to Digital Photography

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#### *SAR-DIG*

The digital camera, a primary tool of the crime scene photographer, offers a great advantage over the traditional film camera because it allows photographers to review results immediately and make adjustments as they shoot. This introductory photography course stresses the photographic image as a significant visual statement. You will explore the use of a digital or smartphone camera and the essential elements and underlying principles of good photography. The terminology of the photographer’s craft – composition, sharpness, point-of view, rule-of-thirds, framing, contrast, and depth-of-field – are reinforced through regular “shooting” assignments. Also included in the course, is an opportunity for you to become familiar with the history of photography and notable photographers who defined the medium in their time. To master basic skills in the digital darkroom and further explore and experiment with creative tools to enhance photographs, you will use the image editing program, Adobe® Photoshop®, to make effective compositions that are expressive and meaningful through cropping, balancing color, adjusting brightness/contrast, and working in composite layers. At the end of the session each student has an opportunity to choose their two best works for display at the Student Art Exhibit in the Frederick R. Mayer Art Center on campus.

***Students are required to bring a digital point-and-shoot camera (DSLR or smartphone cameras are acceptable), and are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Seven

# The Shape of Things

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From the tiniest atomic arrangements in crystals to the towering megastructures of modern architecture, shape and structure are intertwined with functionality and utility. In *The Shape of Things*, students will investigate how scientists and engineers understand and utilize shapes and materials in their many forms. Additionally, this cluster will use Phillips Exeter Academy's Design Lab extensively during our projects.

### Chemistry: A Hidden Architecture

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#### SCI-HID

This course is a tantalizing glimpse into the fascinating hidden world of chemistry (specifically, Nanotechnology & Organic Chemistry), through hands-on, lab-based exploration. Although atoms and molecules are too small to hold and see, students will gain an understanding of the basic forces that dictate the shapes and structures of molecules by building models. Students will probe the microscopic realm that is organic chemistry by testing and experimenting with macroscopic properties of 'sophisticated' materials called polymers, such as: Slime, Gak, and Oobleck.

### 2-D and 3-D Geometry

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#### MPS-GEO

This hands-on class explores the inherent order in 3-dimensional space that determines the nature of all form and structure, including chemical structures (i.e., molecules). You will learn the basic mathematical principles of geometry by building structures using a variety of media. By studying symmetry, pattern, polyhedra, and space filling, you will learn the vocabulary and rules of space - the same rules that help determine how atoms combine to form molecules. Examples from nature and the work of relevant artists and architects will suggest the rich potential for creative expression that results from a deep understanding of the structure of space, and provide inspiration and knowledge for the models you create in the *Prototype Design and Fabrication* class.

### Prototype Design and Fabrication

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#### SAR-PDF

Digital tools make it possible to create sophisticated prototypes rapidly and accurately. In this course you will learn how to use a professional CAD drafting program and a computer-controlled laser cutter to create models out of paper, plastic, and wood. You will have access to the Design Lab, where you will be taught use of tools and techniques needed to become skilled in fabrication. Students will be introduced to the lab through safety trainings, equipment tutorials, and engaging assignments aimed at building confidence and understanding. The Design Lab offers a spacious, supervised setting for students to make and experiment, building a culture of play and a community of creativity.

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

## Cluster Eight

# Classics: Exploring the Ancient World

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Travel back in time with an immersive experience in Classics, the study of ancient Greece and Rome. This cluster uses art, language, and literature to bring ancient history to life. Students will view authentic Greek and Roman artifacts, and will close the summer with Roman-style games such as chariot races and mock gladiatorial matches.

### Art and Archaeology

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#### SAR-AAA

In this course you will explore day-to-day life in the ancient world through the art and archaeology of ancient Greece and Rome. Through discussions and hands-on projects, you will experience more than 2,500 years of Classical sculpture, ceramics, architecture, coinage, and fashion. Learn about ancient history, archaeological methods, and the kinds of challenges facing archaeologists today. Hone your observational skills through an objective look at everyday objects, and learn how to identify artifacts from ancient civilizations. Students will build their own model of a Greek temple, try their hand at making Classical-style clay figures, practice draping a toga, and more.

### Mythology and Literature

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#### HSS-MYT

The mythology of ancient Greece and Rome continues to exert a powerful influence on popular culture and fiction, from books and films like the *Harry Potter* and *Percy Jackson* series to video game appearances by a whole slew of Classical monsters. But who actually killed Medusa or defeated the Sphinx? What exactly happened during the Trojan War? Just how many gods did the Romans worship? Learn the answers to these questions and more as you explore the roots of mythical figures and stories through the lens of epic poetry and tragic drama. Using primary sources from Ancient Greek and Roman literature, students will study the characters and themes in Classical myth and legend. Authors may include Homer, Vergil, Aeschylus, Sophocles, Euripides, and Ovid. Learn mythology from Achilles to Zeus!

### Classical Languages

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#### LNG-AGL

Examine the relationship between speech, myth, and culture as you study the languages that united two of the most powerful civilizations in the ancient world. Latin and Ancient Greek continue to exert a profound influence on language today, forming more than 70% of English's total vocabulary and a significantly higher percentage of vocabulary in math and science. You will spend the first half of the summer learning Attic Greek and the second half learning Latin. Through passages drawn from mythology and fables, you will strengthen your understanding of art, culture, the sciences, and language. The final project, writing an original short story in Latin, will challenge you to stretch the limits of your creativity and writing skills.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

## Cluster Nine

# Kind by Design: Make it Big in a Good Way

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Science and commerce, business and technology are here to stay at least for the foreseeable future. The world currently has the challenge to find ways to align economic and technological principles that are benign not only to people, but also to the earth as a whole. In this cluster students will be asked to explore ways to achieve this lofty goal through practice by designing a product of their very own invention, and creating a business plan to sell and promote it by (e.g., designing a webpage). Throughout this process the students must strive to ‘do no harm’ to the people and all living things upon our shared planet while creating a product that makes the world a better place before, during, and after its usefulness.

### Entrepreneurship: Moral Money Making

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#### SSC-MMM

Have you ever had that “million dollar idea”? Want to have your own business someday? This class will allow you to explore these interests by giving you the opportunity to create your own product, research what it takes to develop it, and learn how to create a business to sell it. More importantly, you will learn to think beyond your business and consider the implications and impact that you, your employees, and your product have on the greater world. Students will also investigate opportunities to build a profitable business that can make the world a better place during the product’s manufacture, use, and even after its useful life. The course will culminate in a ‘Kind Shark Tank’ activity where students will present their business ideas to an audience of ‘potential investors’. Products will be judged not only on projected profit margins (although this is primarily important), but also usefulness to the world, its impact on society, and the environment before, during, and after its useful life.

### Science in Nature: Biomimicry Beyond Benign

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#### SCI-BBB

In this class you will learn the secrets of how to create products that do no harm to our world, but are just as good if not better than existing alternatives. To achieve this goal scientists learn from the earth and the natural processes that have evolved over millions of years. Through hands-on activities students will experiment with cutting-edge technologies and laboratory techniques that will launch the next Fortune 500 companies of tomorrow. Students will participate in an invention pilot program developed through Beyond Benign, Inc. and the Lemelson-MIT Program. Starting with the same renewable resource as feedstock and starch, students will work their way through the invention process, ultimately designing a useful product such as biodegradable plastic straws, hand lotion, or fluorescent playdough. Finally, students will assess their product based on the 12 principles of green chemistry developed by Dr. John Warner from the Warner Babcock Institute for Green Chemistry.

### Marketing: Dignified Digital Design

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#### SSC-DDD

This is an introductory digital marketing course that provides an overview on consumer behavior as well as the actual market. Students will learn about market targeting and segmentation; determining distribution; pricing and promotional strategies; developing a communications strategy; budgeting; analytics; as well as optimization. Ultimately, students will develop a critical eye for discerning and distinguishing between ethical and non-ethical marketing.

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

## Cluster Ten

# Movie Time: Exeter's Filmmaking Academy

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Film media is an important part of daily life in the modern world. We are exposed to it not only in theaters and on television, but increasingly online and on phones. In this cluster, students will explore the fundamentals of filmmaking from three different points of view: screenwriting, video production, and media and society. The three classes will be linked in several ways; for instance, viewing films and reading the screenplays for those films and writing screenplays that are then produced in video production.

### Video Production

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#### *FIL-PRO*

This introductory class will cover basic filmmaking techniques using video cameras, video composition, and digital editing and effects. Students will work as a film production team to plan and create several short films in a variety of genres including both documentary and fiction. They will have the opportunity to film and edit a screenplay that they develop as part of their *Screenwriting* course. The class will use several video software programs including iMovie® and Adobe® Premier Pro® for editing, and Adobe® After Effects® software for adding effects to their films.

### Screenwriting

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#### *FIL SCN*

The foundation of any good film is the story it tells. This class introduces the process of developing a story and building it into a screenplay that is ready to be made into a film. Students will learn about exposition, character development, dialogue, and visual storytelling. The class will work collaboratively to develop screenplays and storyboards for a short film that they will film and edit in the *Video Production* class. Students will also read several screenplays from films they watch in the *Films in Society* class.

### Films in Society

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#### *FIL-FIS*

Film media plays an enormous role in today's culture, but also has a rich history of societal importance. This class explores film history and its impact on society and culture. Students will view several full-length films and discuss the films' influence on moral and cultural life within the film's original context compared with the interpretation in today's context. The class will explore and discuss the impact that these films have played in cultural movements, politics, civil rights, and world events. The course will also cover the history of technological change and its influence on both the production and consumption of film media.

***Students are encouraged to bring their own laptop computer, chromebook, tablet or iPad for homework in this cluster.***

# SSAT Preparation with The Princeton Review®

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## The Princeton Review® Upper Level SSAT® Course

At the Princeton Review, our philosophy goes beyond “tips and tricks” to cover everything students need for the best possible SSAT preparation. From content-area instruction by certified instructors, to strategies for tackling the form and structure of the SSAT, 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 SSAT 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 SSAT. 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:*** 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 SSAT.

**Extracurricular course fee: \$995\***

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



[www.princetonreview.com](http://www.princetonreview.com)

# ACCESS EXETER Physical Education Classes

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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 ACCESS EXETER boarding students participate in a sport for at least one hour four afternoons per week (Monday, Tuesday, Thursday and Friday) between 3:00pm and 6:00pm. **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

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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.

## Cross Country Running

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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

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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

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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

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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.**

## Non-Traditional Games

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This class utilizes experiential learning where the students will get to know each other and build trust via problem-solving activities that are presented throughout the course. Students will learn to respectfully formulate a solution and execute the plan of action in an organized, cooperative manner. This class is a combination of exercising your body and your mind.

## Soccer

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This class is for students of all abilities and experiences in the game of soccer who desire to improve their skills and understanding of the game. They will play cooperatively with others in a structured, competitive environment.

## Squash

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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.***

## Learn to Swim

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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 attire is required.***

## Competitive Swimming

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This class is for students who want to increase their knowledge and experience as competitive swimmers in a structured environment. Students will refine strokes and be challenged to increase their fitness.

***Proper swimwear attire is required.***

## Beginner Tennis

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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

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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

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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.***

## Ultimate Frisbee

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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

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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 2½ week session.***

## Yoga

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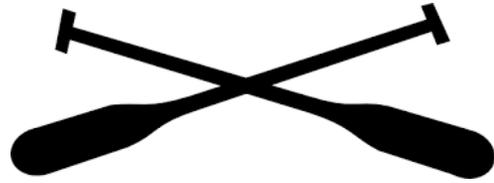
This class is structured to provide a gentle series of exercises and stretching that will involve warm-ups, strengthening of abdominal muscles, back and core, standing postures, and relaxation and recovery. The maneuvers will be set to popular music as well as classic yoga relaxing music and will emphasize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

**NOTE: ACCESS EXETER 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

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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

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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

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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

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## 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](mailto: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

# EXETER SUMMER

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[exeter.edu/summer](https://exeter.edu/summer)

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