



2025 - 2026

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# Curriculum Guide

# Greenhill

— SCHOOL —

# Introduction



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## Mission Statement

In a diverse and inclusive community, Greenhill prepares and inspires students to lead authentic, purposeful lives.

## Vision Statement

We see our students joyfully reaching their full potential.

We see our school thriving as an academically excellent, diverse, inclusive, and connected community.

We see our world made more hopeful because of the Greenhill community.

## Core Values

Excellence | Integrity | Compassion | Courage

### Students 2025-2026\*

Total Enrollment	1,436
Students of Color	60%

### Accreditation, Memberships, & Affiliations

- NAIS — National Association of Independent Schools
- ISAS — Independent Schools Association of the Southwest
- Numerous local and regional school affiliations

### Faculty 2025-2026

Full-time Teaching Faculty	163
Faculty of Color	37%
Advanced Degrees	58%
Average Tenure	11 years
Alumni of Greenhill	12

*Please see the Faculty and Staff Directory on the Greenhill website for a detailed list of all faculty members and contact information.*

*\*Data as of August 2025*

# Calendar & Schedule

## GREENHILL SCHOOL CALENDAR 2025-2026

AUGUST 2025							SEPTEMBER							OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	<b>1</b>	2	3	4	5	6			1	<b>2</b>	3	4							1		
3	<b>4</b>	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	<b>10</b>	11	2	<b>3</b>	4	5	6	7	8
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	<b>13</b>	14	15	16	17	18	9	10	11	12	13	<b>14</b>	15
17	18	19	20	<b>21</b>	<b>22</b>	23	21	22	23	24	25	<b>26</b>	27	19	20	21	22	23	24	25	16	17	18	19	20	<b>21</b>	22
24	25	26	27	28	<b>29</b>	30	28	29	30				26	27	28	29	30	31	23	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	29		
31																			30								
DECEMBER							JANUARY 2026							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					<b>1</b>	<b>2</b>	3	1	<b>2</b>	3	4	5	6	7	1	2	3	4	5	<b>6</b>	7
7	8	9	10	11	12	13	4	<b>5</b>	<b>6</b>	7	8	9	10	8	9	10	11	12	<b>13</b>	14	8	9	10	11	12	13	14
14	15	16	17	18	<b>19</b>	20	11	12	13	14	15	<b>16</b>	17	15	<b>16</b>	17	18	19	20	21	15	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	21
21	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	27	18	<b>19</b>	20	21	22	23	24	22	23	24	25	26	27	28	22	<b>23</b>	24	25	26	27	28
28	<b>29</b>	<b>30</b>	<b>31</b>				25	26	27	28	29	30	31								29	30	31				
APRIL							MAY							<b>School Closed</b> <b>First &amp; Last Days of the Semester</b> <b>Early Dismissal*</b> <b>Conference Day*</b> <b>Professional Development Day (No Classes)</b> <b>No PS Classes</b> <b>No US Classes</b> <b>US Athletics</b>			<i>*Division specific - see list below</i>										
S	M	T	W	T	F	S	S	M	T	W	T	F	S														
			1	2	<b>3</b>	4						<b>1</b>	2														
5	6	7	8	9	<b>10</b>	11	3	4	5	6	7	8	9														
12	<b>13</b>	14	15	16	17	18	10	11	12	13	14	<b>15</b>	16														
19	20	21	22	23	24	25	17	18	19	<b>20</b>	<b>21</b>	<b>22</b>	23														
26	27	28	29	30			24	<b>25</b>	26	27	28	29	30														
							31																				



AUGUST 2025	JANUARY 2026	COMMUNITY EVENTS
4 US Fall Athletics Begin	5 No Classes ( <i>Professional Development Day</i> )	September 11 Founders' Day Celebration
21 First Day of Classes	6 Classes Resume	
21-22 Preschool Early Dismissal at 11:00 am	16 No PS Classes ( <i>Admission Observations</i> )	October 24 Homecoming
29 No LS Classes ( <i>LS Conference Day</i> )	19 School Closed ( <i>Dr. Martin Luther King, Jr. Day</i> )	
SEPTEMBER	FEBRUARY	
1 School Closed ( <i>Labor Day</i> )	2 No MS Classes ( <i>MS Conference Day</i> )	November 6-8 SPC Fall Championships (Houston)
26 No MS Classes ( <i>MS Conference Day</i> )	13-16 School Closed ( <i>Winter Break</i> )	November 21 Grandparents' & Special Friends' Day
OCTOBER	MARCH	February 12-14 SPC Winter Championships (Dallas)
2 School Closed	6 No PS/LS Classes ( <i>PS/LS Conference Day</i> )	April 9-11 ISAS Arts Festival (Dallas)
10 No US Classes ( <i>PSAT Day</i> )	16-20 School Closed ( <i>Spring Break</i> )	April 30 - May 2 SPC Spring Championships (Houston)
13 School Closed ( <i>Fall Break</i> )	23 No Classes ( <i>Professional Development Day</i> )	May 21 Fourth Grade Farewell Ceremony
NOVEMBER	APRIL	May 21 MS Academic, Arts, & Athletics Awards
3 No US Classes ( <i>US Conference Day</i> )	3 School Closed	May 22 Eighth Grade Recognition Ceremony
14 No PS/LS Classes ( <i>PS/LS Conference Day</i> )	10 No US Classes ( <i>ISAS Arts Festival</i> )	TBD Baccalaureate
21 Early Dismissal for Thanksgiving Break	13 No US Classes ( <i>US Conference Day</i> )	TBD Commencement
NOVEMBER (CONT.)	MAY	
24-28 School Closed ( <i>Thanksgiving Break</i> )	1 No US Classes ( <i>Spring SPC Championships</i> )	
DECEMBER	15 No PS/LS Classes ( <i>PS/LS Conference Day</i> )	
19 December Break Begins at 11:00 am	19 US Last Day of Classes	
	20 No MS Classes ( <i>MS Conference Day</i> )	
	21 PS/LS Last Day of School	
	21 MS (Grades 5-7) Last Day of School	
	22 MS Grade 8 Last Day of School	
	22 US Last Day of School	
	25 School Closed ( <i>Memorial Day</i> )	

School Hours	
Divisional offices are open	7:30 am - 4:00 pm
Preschool (Prekindergarten/Kindergarten)	8:00 am - 2:45 pm
Lower School (Primer-Grade 4)	8:00 am - 3:15 pm
Middle School (Grades 5-6)	8:00 am - 3:45 pm
Middle School (Grades 7-8)	8:00 am - 4:05 pm
Upper School (Grades 9-12)	8:30 am - 4:15 pm
Middle School (Grades 7 & 8) sports practices	2:45 pm - 3:55 pm
Upper School sports and after-school activities	4:15 pm - 6:15 pm
After-school care (Extended Day)	2:45 pm - 6:00 pm
Early-morning supervision for Preschool and Lower School students	7:15 am - 7:45 am
Library hours, Monday-Thursday	7:45 am - 4:30 pm
Library hours, Friday	7:45 am - 4:00 pm

# Preschool & Lower School Curriculum

## 2025-2026

### Preschool

The Preschool division is filled with adventure, creativity, investigation, and friendship. Our faculty provides a research-based approach to teaching and learning in which children learn about themselves, others, and the world around them—all in an atmosphere of love, care, and acceptance. The best learning takes place when teachers and families communicate regularly and keep student success in mind. We strongly encourage active participation from parents and family members, which plays a significant role in each child's learning and growth.

### Prekindergarten & Kindergarten

#### PREKINDERGARTEN GRADE LEVEL

Learning through play and a research-based curriculum is how we approach teaching and learning in prekindergarten each and every day! The prekindergarten year at Greenhill School is filled with wonder, discovery, and exploration. We take a balanced approach, whether it be challenging academics, interactive science opportunities, or essential social skills. Throughout the year, we focus on project-based learning opportunities that are multidisciplinary. We meet the individual needs of all of our students with authentic activities, global perspectives, and celebrations of equity and inclusion. Our masterful early childhood educators understand that we are helping to build a foundation of life skills, critical thinking, and an overall love of learning. The prekindergarten year is exciting, challenging, fun, and thoroughly enjoyed by our students, their families, and the teachers.

#### KINDERGARTEN GRADE LEVEL

Greenhill's kindergarten curriculum is based on the principle that a child's development and learning are integrated. We strive to

provide an environment that provides active and authentic experiences that foster wonder, exploration, and discovery. We provide a balanced academic learning approach with play and direct instruction. Our environment provides a variety of learning activities and materials that are concrete, real, and relevant to the lives of our young children to help encourage them to take risks and make connections. Throughout the year, we also focus on project-based learning opportunities that are multidisciplinary. Throughout these units, we integrate all curricular areas and allow the interests of the children to dictate much of the learning that takes place. We also foster independence and help to build social competence by providing ample time for play in combination with more structured independent and cooperative learning situations. We emphasize kindness, compassion, and respect. We give children guidance and support in this character development. Our primary objectives are to foster a love of learning and promote good citizenship in all of our students. By focusing on children's social, emotional, cognitive, language, and physical growth, we promote an effective developmental approach to learning.

#### Prekindergarten/Kindergarten Spanish

“¡Buenos días a todos aquí!” Our prekindergarten and Kindergarten Spanish curriculum introduces children to basic words and phrases while offering a glimpse into Hispanic culture. Through interactive activities such as reading Spanish books, singing songs, and playing games, students gain exposure to the language in a fun and engaging way. The goal is to spark curiosity and lay the foundation for further language learning, all while fostering an appreciation for Spanish-speaking cultures. Students attend Spanish class one and a half hours per week divided into three 30-minute sessions.

#### Prekindergarten/Kindergarten Art

Prekindergarten and kindergarten art focuses on teaching students self-expression through the exploration of art materials. Students engage in self-directed play with materials,

engage in creative making, and share and talk about their artwork. Prekindergarten/Kindergarten Art is focused on the process of creating artwork rather than on the finished product.

#### Prekindergarten/Kindergarten Music

Through singing, dancing, and responding expressively to music, we strive to grow tuneful, beautiful, and artful music students. Prekindergarten and kindergarten students attend music class three times a week for 30 minutes. During these classes, children move, chant, and play games while finding their “singing voices,” exploring tone and rhythm, learning to keep a steady beat, and playing percussion instruments.

#### Prekindergarten/Kindergarten Social-Emotional Learning

The Social-Emotional focus for students in prekindergarten and kindergarten is the journey of developing a strong sense of self. These skills are later used to develop a sense of compassion and empathy for those around them. Through the MindUp curriculum, students learn how their brains work and gain self-regulation strategies that are authentically practiced throughout the year. Students develop social awareness, relationship skills, and responsible decision making as these topics are addressed in a developmentally appropriate and engaging way. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

#### Prekindergarten Literacy

The Prekindergarten literacy curriculum is designed to spark the joy of learning in students by building a strong foundation in letters and sounds. We help develop phonemic awareness, speech production, and phonics using Jump Start to Literacy, a component of the CR Success curriculum which aligns with research-based literacy instruction. By engaging in interactive activities and balanced instruction, our hands-on phonics instruction teaches students alphabetic knowledge through

multiple, distributed instructional cycles. Students are exposed to high-quality literature involving songs, hand and body cues, imagery, kinesthetic cues, and stories. Students explore the beginnings of writing through storytelling and responding to writing prompts using inventive spelling and pictures. Read-aloud sessions from mystery readers and curriculum related enrichments play a key role in language development and foster a deeper appreciation for stories. Through these comprehensive experiences, we aim to instill a lifelong love for literacy in our young learners.

### **Prekindergarten Social Studies**

The beginning of the year is a crucial time for prekindergartners to become comfortable with their new environment and understand the concept of being part of a classroom community. By exploring different areas of the school and its culture, these young students start to acclimate and learn what it means to be productive members of their community as well as embracing the core values of the school. Additionally, students participate in a yearlong service project that fosters empathy and compassion for others. Throughout the year, prekindergartners engage in activities that encourage them to build appreciation and respect for a variety of cultures and celebrations. Themes such as family, school community, and surrounding communities provide concrete experiences, helping them grasp broad and important topics.

### **Prekindergarten Science**

The prekindergarten science curriculum nurtures children's natural curiosity about the environment. From animals, seeds to rocks, water and beyond, every element in their surroundings is a source of wonder. Science takes the form of specific project-based learning experiences that follow-up on child-driven questions about nature and the world. Prekindergartners observe, explore, and apply previous knowledge to their current areas of interest. Our student-centered approach provides concrete learning opportunities and caters to individual interests. Prekindergartners also engage in STEAM activities that include creative tinkering, exploration, and maker-based instruction.

### **Prekindergarten Math**

The prekindergarten math curriculum encourages young children to make sense of the world around them through mathematical concepts. One of the first academic acquisitions young children often make is in the area of qualitative and quantitative thinking. Students come to us with varying degrees of concrete mathematical information. The prekindergarten Bridges and Number Corner curriculum builds on these concepts through interactive lessons, activities, and centers that develop skills in counting, comparing, matching, joining, and separating sets of objects; comparing objects by attributes such as length, weight, and capacity; matching, recognizing, comparing, and composing shapes; and recognizing patterns with proficiency and flexibility. We study how these skills are applicable in our everyday lives while incorporating mathematical vocabulary into discussions. We focus on building a strong number sense as well as critical thinking skills by challenging the students to not only solve problems but also explain their thought processes and reasoning.

### **Kindergarten Literacy**

As early childhood educators, we believe young children first learn to read and write through authenticity, experimentation, exploration, and discovery. By incorporating the CR Success phonics program, reading and writing workshop, and the Handwriting Without Tears program we offer a holistic approach to literacy instruction for our students. Students are allowed to experience the freedom of making and learning through mistakes and scaffolding, as well as developing fluency with their reading and writing. Through interactive read-alouds and skill-based small groups, children expand their critical thinking and comprehension skills. In kindergarten, children develop phonemic awareness skills through engaging and interactive mini-lessons. Concurrently, explicitly taught phonics skills bridge the connection between spoken sounds and print to build a strong foundation for reading.

### **Kindergarten Social Studies**

Self-confidence and social competence are the emphases of social studies in a kindergarten classroom. As students build their own sense of identity, they begin to build empathy for others as they engage in group collaboration, build relationships, and navigate social situations. Through community-building share times, Greenhill Goes Global, family traditions, and inclusive read alouds, students learn to recognize, respect, and value others around them.

### **Kindergarten Science**

Two global science themes drive Greenhill School's kindergarten science curriculum. Project-based learning helps deepen and enrich the themes of growing things and color and light by providing concrete experiences for kindergarteners. Children explore these themes through literature and hands-on activities, along with specific experimentation using the scientific method. Kindergartners are also engaged in makerspace STEAM activities that include creative tinkering, exploration, and maker-based instruction.

### **Kindergarten Math**

In kindergarten, children acquire quantitative thinking skills through exploration and discovery using the Bridges Math curriculum. Bridges blends direct instruction, structured investigation, and open exploration. It taps into the intelligence and strengths of all students by presenting material that is as linguistically, visually, and kinesthetically rich as it is mathematically powerful. Manipulatives foster the young child's need for concrete exploration and are used to help establish a solid foundation for math concept development. Kindergarteners explore and solidify math connections to life skills through authentic activities that emphasize problem-solving. The foundation of concepts, strategies, and tools that are built in kindergarten are spiraled and built on throughout the students' Lower School education.

# Primer & Grades 1-4

## PRIMER

### Overview

The Primer classroom is a unique developmental opportunity for children after kindergarten, designed to give students a rich environment while practicing skills taught through a child-centered, hands-on approach to learning. The classroom focus is on the development of the whole child, including the social, emotional, physical, and academic components. Learning activities are planned with a great deal of emphasis on individual student development, with instruction continuously modified to meet the needs of each child.

### What makes Primer unique?

- Provides a bridge between kindergarten and first grade.
- Provides a challenging curriculum that is designed to meet the developmental needs of each child.
- Provides hands-on activities with manipulatives and developmentally appropriate materials.
- Provides flexibility of instructional time and pacing with shorter time on tasks.
- Provides additional opportunities for large muscle exercise and small motor development.
- Provides for the transition from concrete to abstract learning.

### Literacy

The Primer literacy curriculum is designed to meet the needs of each child and continue the development of each child's language skills. Reading, writing, and listening and speaking are integrated into cross-curricular activities throughout core and content areas such as math, art, music, science, social studies, and technology, thereby immersing the students in literacy activities throughout their day. The Primer literacy program builds the bridge to critical thinking, independent reading and comprehension, and writing in a variety of modes. The social studies curriculum is a journey of exploration through the multifaceted world and provides frequent

opportunities for students to apply literacy skills. As the children mature, it is our goal to help each child develop mutual respect for others. Through open communication, the children learn to solve problems while gaining a sense of responsibility and accountability for their own actions.

### Math

The math program in Primer uses a variety of real-life activities and concrete manipulatives to develop a strong conceptual basis for learning and build a mastery of basic skills. We explore strands from the full spectrum of mathematics, going beyond basic arithmetic to include number sense, algebra, measurement, geometry, data analysis, and probability. Activities are developed based on how children learn and what most captures their interest. There is an emphasis on mathematical competence and problem-solving, building higher-order and critical thinking skills. It is our goal to prepare students to enter the next level, confident in their math skills and enthusiastic about what lies ahead.

### Science

The science program in Primer builds on the child's natural curiosity about the world they live in. We provide children with direct experience using materials, events, and ideas critical to later learning. We build on students' prior experiences, backgrounds, and early ideas. Students engage in investigations and problem-solving techniques using basic science concepts. Students practice strategies involving questioning, exploration, and explanation building (hypothesis). Primer science serves as an important link between science and the developing literacy and social skills of students and utilizes strategies that integrate science with other content areas.

### Art

The Primer art program focuses on independent and collaborative student-led exploration. The student is the artist and gets to choose how best to visually represent their ideas. This promotes decision making and provides students with the opportunity to respond to their own interests. Emphasis is placed on what students learn and not what they produce. Primer students will learn

creative problem-solving, how to manipulate different materials, and how to direct their own learning.

### Music

The Primer music curriculum provides structure and order within an active, playful atmosphere that includes exploration, improvisation, movement, and hands-on learning. The twice-weekly lessons are sequential and include the following concepts: rhythm (steady beat, understanding the difference between long/short duration and fast/slow tempo), melody (high/low pitch, melodies that move up/down, matching vocal pitches), form (understanding same/different phrases, phrase length), and timbre (identifying vocal and instrumental qualities of sound).

### Spanish

Primer Spanish focuses on strengthening the students' verbal skills. Through songs and literature, students learn about and appreciate Hispanic culture and heritage. In class, students are encouraged to take linguistic risks, say unfamiliar words, and sing songs in Spanish. Students love learning about how different holidays are celebrated in Spanish-speaking countries. Primer students attend Spanish class one hour per week, divided into two 30-minute classes.

### Library

Primer students learn about library procedures and practices, as well as how to best care for their books, and how to use a shelf-marker when searching for books. Important literacy skills are taught such as the parts of a book and how the library collection is organized. Primer students also begin to understand that the library consists of both fiction and non-fiction books, and how to differentiate between these genres.

### Physical Education

Primer students participate in various movement activities designed to promote motor and manipulative development, the understanding of a healthy lifestyle, and a positive self-image. Emphasis is on enjoyment, challenge, self-expression, and social interaction within movement experiences. The curriculum includes an aquatics unit accenting proper

stroke development, water safety, and self-confidence during swimming and a climbing unit designed to promote handwriting skills.

### **Social-Emotional Learning**

Students build and strengthen social-emotional competencies through the MindUP curriculum. Daily repeated practice of mindful breathing hones attentive listening and calming. Students learn about how their brains work and explore becoming mindfully aware of all that is going on around them. As they progress through the curriculum, they practice perspective-taking and optimism, learning about the importance of mindset and how it affects learning and relationships. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

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## **FIRST GRADE**

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### **Overview**

First grade marks an important time of milestones for young children. During this year, first graders are encouraged to use and build upon previously taught social skills as their relationships grow. First-grade students will experience many opportunities to develop socially, emotionally, physically, and academically. Throughout the year, students explore the overarching theme of “change.” In addition to direct instruction in reading, writing, and spelling, literacy skills are integrated into science and social studies thematic units of study. The curriculum seeks to combine literature with an emphasis on word construction and meaning, comprehension, and higher-thinking skills. But the true magic of first grade happens as children develop the ability to understand that they are independent thinkers and lifelong learners.

### **Literacy**

In the first-grade literacy program, literature is used to connect themes, explore content, model good writing, and demonstrate proper grammar and mechanics to strive towards a balanced literacy approach. Teachers also work with children individually or in small groups to meet different student needs and

propel the development of literacy skills and strategies. Written language is encouraged through journal writing, data collection, and various content-related assignments. Spelling is taught daily using a program called CR Success; this program begins in kindergarten and continues through fourth grade. The publishing process begins in first grade with students prewriting, editing, and publishing many of their compositions. Manuscript handwriting is refined throughout the year as motor skills develop. Social studies and science themes provide regular opportunities to apply literacy and research skills to meaningful topics. Children enter first grade with a wide spectrum of abilities, but a major goal for all students is to leave first grade choosing to read and write independently.

### **Math**

The first-grade math program uses a cooperative learning, hands-on approach with a variety of materials, manipulatives, games, and activities to develop math concepts and problem-solving skills in all students. The core mathematics curriculum is based on the Bridges Mathematics program and is supplemented by a variety of resources to meet the needs of a range of math abilities. Students are introduced to new concepts and continue to develop concepts including numbers and numeration, operations and computation, data and chance, measurement and reference frames, geometry, patterns, functions, and algebra. These math and problem-solving skills are developed over time in a wide variety of contexts. There is a strong emphasis on developing and understanding addition and subtraction strategies to develop mastery for solving basic facts.

### **Science**

In first-grade science, students apply processes that help them understand the natural world and learn that science is exciting, dynamic, and essential! They ask questions, make observations, and analyze information by engaging in hands-on labs in the areas of life, Earth, and physical science. Students begin by investigating and classifying developmentally appropriate science tools and using senses to describe observable properties and compare living and nonliving

objects. While learning about plant and animal structures that help organisms survive and thrive, students record each of these essential “needs” in an Interactive Science Notebook (ISN). Our learning continues as students determine the movement and patterns of the sun and moon with the use of digital tools, in-class simulations, personal and in-class observations, and logging daily patterns in their ISN. Next, students begin a series of investigations on the different forms of energy, which include heat, light, and sound. They incorporate the scientific process to test thermal heat transfer, how materials behave when placed in a beam of light, and how sound waves travel through space to create different acoustics. Spring changes taking place in nature and in our science sustainability garden present the perfect opportunity to learn about the life cycle. Students use critical thinking to compare living organisms, such as a germinating seed and the monarch butterfly

### **Art**

First-grade art is focused on students experiencing the process of art making and beginning to think like an artist. Art products occur through creative play, decision making, and exploration of materials. While students are engaging in process art experiences, they are talking to each other and adults, wrestling with problems that arise, and solving the problems creatively. When students make decisions for themselves in the art room, they are developing their self-expression and their self-confidence. First grade artists are exposed to many different materials and styles of art making.

### **Music**

One of the primary goals in first-grade music is to instill the love of music in students. Our activities include singing, rhythm recognition, movement, instrument playing, listening, and improvisation. Students begin to read and write quarter notes, eighth notes, and quarter rests. They are also introduced to the solfège syllables sol, mi, and la. Elemental songs are introduced and accompanied by Orff instruments. They present a spring program that incorporates movement, singing, and instruments.

## Spanish

First-grade language lessons are designed to promote enthusiasm for the learning of new languages. Cultural lessons help students develop an appreciation of Latino and Spanish cultures and customs. The language program emphasizes functional skills in listening and speaking. Exposure to age-appropriate Spanish literature, songs, and games provides a multitude of learning opportunities. Building a solid foundation in the early years allows our students to construct conceptual frameworks for understanding language, culture, and diversity, enhancing their language learning potential in the Middle School years. First grade students attend Spanish class one hour per week, divided into two 30-minute sessions.

## Library

First graders learn about library procedures and practices, as well as how to best care for their books. Important literacy skills are taught such as the parts of a book and how the library collection is organized. First graders also begin to understand that the library consists of both fiction and non-fiction books, and how to differentiate between these genres. Students focus on literature skills and concepts covered in the classroom, including elements of a story, sequencing, comparing, and contrasting, drawing conclusions, and a variety of genre studies, and books that celebrate various holidays and yearly celebrations. In addition, students begin to learn how to choose a “just right” book and books of interest.

## Physical Education

First-grade students participate in Physical Education daily for 45 minutes. The curriculum is focused on various movement activities designed to promote motor and manipulative development, the understanding of a healthy lifestyle, and a positive self-image. Emphasis is on enjoyment, challenge, self-expression, and social interaction within movement experiences. The curriculum also includes an aquatics unit accenting proper stroke development, water safety, and self-confidence during swimming and a climbing unit.

## Social-Emotional Learning

Students build and strengthen social-emotional competencies through the MindUP curriculum. Daily repeated practice of mindful breathing hones attentive listening and calming practices. Students learn about how their brains work and explore becoming mindfully aware of all that is going on around them. As they progress through the curriculum, they practice perspective-taking and optimism, learning about the importance of mindset and how it affects learning and relationships. Students are always working on ways to build healthy relationships and problem-solve with others. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

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## SECOND GRADE

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### Overview

In second grade, students continue to practice and develop skills and strategies that promote academic, social, emotional, and physical maturation. The theme of “community” shines brightly in second grade. In social studies, students explore community and the ways in which we are each members of various communities. The lessons and integrated projects allow students to examine the impact that significant individuals have made in their communities and explore how they can create change in their community as well. We examine the impact significant individuals have made in their communities and learn how to be changemakers. In literacy, we strengthen reading and writing abilities through comprehensive fiction, poetry, and nonfiction units. Math builds upon students’ number sense foundation and strengthens operational skills with the largest emphasis on addition, subtraction, and place value. Students are encouraged to problem-solve from different perspectives and take risks with the understanding that mistakes are how we learn, collaborate with others, and communicate effectively. Self-contained classrooms allow for several long-term, project-based units in which students practice

working independently, in small groups, and with peers from other grade-level classrooms.

### Literacy

The second-grade literacy program contains several different content areas: reading, writing, phonics, spelling, handwriting, and social studies. Reading and writing are taught in a workshop format to allow students to receive individualized support and challenges. During Reading and Writing Workshop, teachers work with children individually or in small groups to meet individual student needs and propel the development of literacy skills and strategies. Reading and writing are taught in five connected units to take a deep dive into genres. These units build confidence and strengthen skills. Each unit ends with a celebration and an opportunity to self-reflect. Spelling and phonics are taught daily using hands-on, interactive lessons and tools that address multiple learning styles to increase memory and improve application. In addition, students learn the cursive alphabet through weekly handwriting lessons emphasizing letter formation and connections. The social studies curriculum provides students with the opportunity to stretch and further develop their literacy skills in a real-world context through the study of communities.

### Math

The second-grade math program is a rigorous and balanced curriculum. It raises expectations of the range of skills that a child can demonstrate in mathematics. The focus is on four main mathematical areas: algebraic thinking, numbers and operations, measurement and data, and geometry. Students explore and expand mathematical concepts while building a strong number sense foundation. Our goal is to introduce and expand children’s understanding of the basic concepts and skills in number sense, algebra, measurement, geometry, probability, and problem-solving. Students build their automatic recall of basic math facts, which helps them solve everyday computational problems.

### Science

As second graders, students grow in their ability to categorize and analyze scientific

information during hands-on labs, in-class activities, and outdoor exploration. Greenhill's second grade science class capitalizes on the learner's increased metacognitive skills and enthusiasm for understanding the natural world. Students begin the year looking at everyday problems with curiosity and wonder. Then they apply scientific inquiry to formulate a hypothesis in an investigative lab to compare habitats of living organisms and record scientific findings in an Interactive Science Notebook (ISN). Seasonal changes taking place in the fall bring our learning outside to gather leaf specimens going through photosynthesis. Meanwhile, students carry out the scientific process in an experiment that simulates photosynthesis and extracts chlorophyll from a leaf. Winter's colder weather may keep us indoors, but students stay engaged as they classify matter by observable properties and make changes to matter in several STEM challenges. The design process is carried out to create a prototype with a purpose and then investigate how different types of materials can be used for specific purposes. In the spring, students examine predictable weather patterns through hands-on learning stations. Additional spring highlights include about changemakers in the field of science that have made an impact on real world problems affecting our planet.

### **Music & Movement**

The second-grade curriculum is active, transitioning quickly from one activity to another. Like previous grades, much of the curriculum is play-based. Students experience musical concepts first through play before they are named and mastered. During the second grade year, students increase their rhythmic vocabulary to include quarter rests, half notes, half rests, and sometimes sixteenth notes. Simple meters are experienced and later named, as are changes in tempo and time signatures are labeled. Second graders also expand their pitch sets using solfège syllables (do, re, mi, etc.) and use corresponding hand signs to perform and improvise simple scale-tone melodies. Proper instrumental technique is practiced on unpitched percussion instruments, barred instruments (xylophones), and frame drums as students learn to create

simple accompaniments to classroom singing on these instruments. Movement is also a key component of the curriculum. It helps students internalize form, character, and rhythm. In second grade, students explore how to move their bodies in different ways through self and general space. Students begin using their bodies to create shapes and explore different pathways. Classes use contradances and other folk dances to expand their vocabulary of movement which they draw on to choreograph their own sequences.

### **Art**

The second-grade art curriculum encourages students to think like artists, build skills, practice various techniques, and make connections to other subjects and the world around them. Students have opportunities to choose their own materials and subject matter but also are tasked with creating their own solutions to art challenges with set parameters. While the focus is on the creative process rather than producing a finished product, second graders are beginning to evaluate and assess their own work. Our spiraling curriculum builds upon skills students have learned in previous years, allowing them to add layers of complexity to their work in both two- and three-dimensional mediums as they grow as artists.

### **Spanish**

Second-grade students take Spanish classes throughout the year. Language lessons are designed to promote enthusiasm for the learning of new languages. Students discuss the relationship between English and Spanish as they study vocabulary and word parts. Cultural lessons help students develop an appreciation of cultures and customs. The language program emphasizes functional language and rudimentary training in listening, speaking, reading, and writing, as well as cultural awareness across cultures. Themes are often integrated with studies in the core classes. These comparative learning opportunities allow our students to construct conceptual frameworks for understanding language, culture, and diversity, enhancing their language learning potential in the Middle School years.

### **Computer Science & Engineering**

In the second-grade classroom, students engage with a diverse range of online resources and technological tools to enrich their academic experience. The second-grade curriculum incorporates engineering principles to inspire students to cultivate a mindset of critical thinking, designing, and problem-solving within all classes. As part of their educational journey, second grade students are formally introduced to essential digital literacy skills and proficiencies, with a particular emphasis on fostering positive digital citizens. In this grade, technology serves as a valuable instrument for fostering creativity, reflection, and the refinement of ideas among students.

### **Library**

Second graders learn about library procedures and practices, as well as how to best care for their books. Important literacy skills are taught such as the parts of a book and how the library collection is organized. Second graders also begin to understand that the library consists of both fiction and non-fiction books, and how to differentiate between these genres. Students focus on literature skills and concepts covered in the classroom, including elements of a story, sequencing, comparing, and contrasting, drawing conclusions, and a variety of genre studies, and books that celebrate various holidays and yearly celebrations. In addition, students begin to learn how to choose a "Just Right" book and books of interest. In addition, students begin to learn how to search for books using the library's online catalog and how to then find the book on the shelves.

### **Physical Education**

Second-grade students participate in Physical Education daily for 45 minutes. The curriculum is focused on various movement activities designed to promote motor and manipulative development, the understanding of a healthy lifestyle, and a positive self-image. Emphasis is on enjoyment, challenge, self-expression, and social interaction within movement experiences. The curriculum also includes an aquatics unit accenting proper stroke development, water safety, and self-confidence during swimming and a climbing unit.

## Social-Emotional Learning

Students build and strengthen social-emotional competencies through the MindUP curriculum. Daily repeated practice of mindful breathing hones attentive listening and calming techniques. Students learn about how their brains work and explore becoming mindfully aware of all that is going on around them. As they progress through the curriculum, they practice perspective-taking and optimism, learning about the importance of mindset and how it affects learning and relationships. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

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## THIRD GRADE

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### Overview

The third-grade year focuses on the goal of empowering students to be in charge of their own learning as they develop their academic and social skills. Third-grade students develop independence by demonstrating active listening and follow through, keeping materials, assignments, and homework organized, managing time wisely, and practicing problem-solving. Taking risks with expression of ideas both orally and in written form or requesting assistance when needed are encouraged on a daily basis. Living and working with one's peers requires cooperation, compromise, trust, respect, compassion, problem-solving, service, and effort. Third-grade students are expected to become self-managers of personal behavior, exhibit good social interactions, develop conflict resolution skills, and perform service for others.

### Literacy

Writing opportunities abound in literacy class. Writing paragraphs that include a topic sentence, supporting details, and conclusion sentences begins our year, followed by writing units that include free-verse poetry, personal narratives, fables, and biography research. Planning and organizing ideas, writing drafts, revising and editing work, and writing final drafts for celebration in class anthologies are a part of every writing unit. Spelling and

grammar lessons are also incorporated into literacy class weekly. Opportunities to write freely and creatively are provided weekly as well. Cursive handwriting and keyboarding skills are developed in our curriculum.

We begin our year in Readers Workshop by building stamina and exposing students to rich collections of literature that are read with partners, in reading groups, and during independent reading time. Reading comprehension skills are taught through read-alouds and direct instruction and in focused reading groups. We also emphasize reading fluency and accuracy in our lessons. Exposing students to a diverse collection of literature is a priority. Critical thinking is achieved through literature discussions, journaling, and other shared literature activities.

### Math

Exploration, discovery, and explanation are crucial components for building understanding with children in the ongoing development of number sense and mathematical proficiency. The Bridges program is used as the basis of study, and many additional resources are used to supplement the program. Students focus intensively on the four critical areas specified by the Common Core State Standards for Mathematics in third grade: developing understanding of multiplication and division and strategies for multiplication and division within 100; developing an understanding of fractions, especially unit fractions; developing an understanding of the structure of rectangular arrays and area; and describing and analyzing two-dimensional shapes. Regardless of the particular focus of study, students are consistently asked to look at problems in different ways and to communicate their thinking through both oral and written explanations. They are often asked to "prove" their answers and explain their reasoning in detail, ultimately adding depth and dimension to their true understanding of mathematics. The Third Grade math curriculum also includes an enrichment program called Concept Quests in which students are able to reinforce and extend grade level learning through opportunities to work either independently and collaboratively.

## Science

In third grade, students embark on a two-year educational science journey that spans through fourth grade, guided by the same teacher. During the initial year, the curriculum centers on enhancing students' comprehension of and interaction with their natural surroundings. It aims to instill an appreciation for the human impact on nature, foster a logical problem-solving approach, and incorporate the engineering design process to address real-world challenges. Examples include designing tornado shelters and engineering devices to safeguard cars against hail damage. The curriculum also explores the interconnectedness of science with various aspects of human existence.

Hands-on scientific investigations play a crucial role in this course, allowing students to actively engage in the processes of questioning, observing, predicting, measuring, testing, comparing, describing, relating class concepts to the physical world, communicating ideas, experimenting, and recognizing cause-and-effect relationships. Throughout their studies, students delve into diverse topics, such as Earth's position in the universe, Earth in the Goldilocks Zone: just right for life, balanced and unbalanced forces, weather and climate, introductory concepts of ecosystems and food chains, and adaptations. To document their scientific experiences, students maintain an extensive journal record. The curriculum covers a wide range of scientific domains, including life science, earth science, physical science, and environmental science. Additionally, ample opportunities are provided for students to enhance their technical reading skills through the exploration of nonfiction materials.

### Social Studies

In third grade, students begin a two-year course that continues through fourth grade, taught by the same teacher. In the first of the two years, the world opens up as they bring their increasingly sophisticated literacy skills to an exploration of the world in social studies. The multicultural curriculum connects to global themes, includes a variety of sources, and enables students to understand, participate in, and make informed decisions about their world. Students practice civic engagement and civil discourse, as well as exploration and discovery of knowledge from

the core content areas of civics, economics, geography, and history. Through this literature, students learn to think critically, evaluate characters' decisions and actions, and relate concepts to their own experiences. Our primary goal is to inspire our students to love reading, writing, and exploring cultures.

### **Art**

The third-grade art curriculum encourages students to think like artists, build skills, practice various techniques, and make connections to other subjects as well as the world around them. Students have opportunities to choose their own materials and subject matter but also are tasked with creating their own solutions to art challenges with set parameters. While the focus is on the creative process rather than producing a finished product, third graders are learning to evaluate and assess their own work. Our spiraling curriculum builds upon skills students have learned in previous years, allowing them to add layers of complexity to their work in both two- and three-dimensional mediums as they grow as artists.

### **Music & Movement**

Like previous grades, the third-grade Music & Movement curriculum starts play-based. Students experience musical concepts first through age-appropriate games before they are named and mastered. However, as students develop their skills and are able to draw on musical tools, third graders begin to rely more on their own creativity to explore musical concepts. Meters are experienced and later named, as are changes in tempo. Third graders expand their pitch sets using solfège syllables (do, re, mi, etc.) and use corresponding hand signs to perform and improvise simple scale-tone melodies. As students are already familiar with proper instrument technique, third graders compose and perform more complex instrumental pieces at the xylophones. Students also begin transferring pitch relationships to the musical staff as they build their ability to visually recognize steps, skips, and leaps. Movement is also a key component of the curriculum. It helps students internalize form, character, and rhythm. In third grade, students build on their repertoire of movement and explore new collaborative concepts, such as points of connection and relationship (beside, over, under, alone, near, far, etc.).

### **Spanish**

Third-grade language courses further student experience of Spanish language and cultures. Exposure is not only to Mexico and Spain but other related nations as well, giving the students facility to distinguishing between multiple cultures and languages. Studying both spoken and written structures allows students to navigate public spaces and communicate respectfully. While continuing to work with cross-curricular, grade-level academic themes, students also build functional language capabilities. Students develop recognition of major Spanish historical figures and learn about the geography and ethnic diversity of Latinx culture.

### **Computer Science & Engineering**

Third-grade students begin working in a laptop environment for the first time. The shift from tablet to laptop helps students build their understanding of how to use a device to support their daily learning. The digital citizenship curriculum further investigates age-appropriate online behaviors, and students recognize the rights and responsibilities of living and learning in an interconnected digital world. In third grade our students receive direct device care instruction, such as keyboarding, operating system best practices, and navigating online resources. In computer science and engineering integrated units, students work independently and collaboratively to articulate and set goals and reflect on the learning process itself to improve learning outcomes. This is best demonstrated through the robotics build-a-thon at the end of the year.

### **Library**

Third graders learn about library procedures and practices and how to navigate the library to find books of interest. They learn how to use the online catalog and practice locating books on the shelves. They also learn how to self-checkout their library books. In the fall, the Texas Bluebonnet Award Reading Program is announced, and all students are encouraged to participate. This program encourages reading for pleasure for students in grades 3-6 in hopes of exposing children to excellent writers across several genres. Students must read five of the books from the list in order to be eligible to vote.

Third graders are also given the option to participate in a yearly reading challenge that encourages the students to read books from a variety of genres. Together in class, we also read and discuss a variety of genres and focus on literature skills and concepts covered in the classroom. Third graders are also introduced to beginning research skills and learn how to access our library's various online resources and databases.

### **Physical Education**

Third-grade students participate in Physical Education daily for 45 minutes. The curriculum is focused on various movement activities designed to promote motor and manipulative development, the understanding of a healthy lifestyle, and a positive self-image. Emphasis is on enjoyment, challenge, self-expression, and social interaction within movement experiences. The curriculum also includes an aquatics unit accenting proper stroke development, water safety, and self-confidence during swimming and a climbing unit.

### **Social-Emotional Learning**

Students build and strengthen social-emotional competencies through the MindUP curriculum. Daily repeated practice of mindful breathing hones attentive listening and calming. Students learn about how their brains work and explore becoming mindfully aware of all that is going on around them. As they progress through the curriculum, they practice perspective-taking and optimism, learning about the importance of mindset and how it affects learning and relationships. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

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## **FOURTH GRADE**

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### **Overview**

The fourth-grade year focuses on building on the foundation of the earlier years in Lower School. As intellectual abilities begin to expand, students are challenged to engage in increasingly abstract and complex thinking while continuing to solidify basic skills and competencies and make them automatic. Students demonstrate increased

independence, accountability, and self-management with their time, materials, and school tasks. They increase their organizational skills, build independent study habits, and engage in goal setting with their teachers. The theme of leadership is central to all aspects of fourth-grade life—in the classroom, on the playground, and in the greater community. Students explore numerous models of leadership, and each child constructs a concept of leadership that is meaningful to him or her. Students are expected to be leaders in a variety of arenas—in their family, among classmates, in the Lower School through leading assemblies and school-wide initiatives, and in civic leadership and community service.

### **Literacy**

In Readers and Writers Workshop, students take a scholarly approach to the study of reading and writing. The fourth-grade students are exposed to a wide variety of genres in order to discover different purposes and styles of writing. Genre studies include narrative fiction, historical fiction, persuasive essays, nonfiction, and research. Through the use of mini-lessons, individual conferences, and small groups, teachers meet individual needs and support the development of literacy skills and strategies. Students are challenged to be reflective about the habits and practices of good readers, authors, and researchers. Spelling and word study continues within the CR Success program and turns to a focus on the roots and etymology of words and word parts.

### **Math**

Exploration, discovery, and explanation are crucial components for building understanding with children in the ongoing development of number sense and mathematical proficiency. The Bridges program is used as the basis of our studies, and many additional resources are used to supplement the program. Students have two math periods daily, a Number Corner lesson and a math class taught by the math specialist. Students focus intensively on the four critical areas specified by the Common Core State Standards for Mathematics in fourth grade: developing an understanding and fluency with multi-digit multiplication;

developing an understanding of dividing to find quotients involving multi-digit dividends; developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; and developing an understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry. Regardless of the particular focus of study, students are consistently asked to look at problems in different ways and communicate their thinking through both oral and written explanations. They are often asked to “prove” their answers and explain their reasoning in detail, ultimately adding depth and dimension to their true understanding of mathematics.

### **Science**

In fourth grade, students continue a two-year course that began in third grade, taught by the same teacher. The goal of fourth grade science is to foster students’ curiosity about the wonders of science. The curriculum places a strong emphasis on honing students’ investigative skills while concurrently expanding their understanding of scientific vocabulary, facts, and theories. To actively engage with the subject matter, students maintain an interactive journal that documents their science-related experiences. The units covered encompass a wide range of topics, including the Scientific Method, the Engineering Design Process, Matter and Energy, Waves, Earth’s changing landscape and the processes that lead to the changes on Earth—including weathering, erosion, and deposition, and Animal traits and behaviors.

For each unit of study, students partake in hands-on activities where they delve into and explore newly introduced topics. They actively investigate and experiment with the subject matter, fostering a deeper understanding of the concepts learned. Toward the end of the academic year, students delve into the fascinating realms of aerodynamics and flight physics. Through the incorporation of the engineering design process, they engage in planning, designing, creating, and testing air-pressure rockets. Throughout the course, the emphasis is placed on experimentation

and practical applications. Students are encouraged to actively participate in flexible, independent science experiences that allow them to apply their knowledge in real-world scenarios.

### **Social Studies**

In fourth-grade social studies, students continue a two-year course that began in third grade, taught by the same teacher. In the second of the two years, the students study American and Texas history. Social studies is closely tied to our focus on leadership. Students are encouraged to ask questions and reflect on the motivations, convictions, and strategies of the leaders of the past in order to make meaningful connections to our present world. In social studies class, students develop their note-taking and research skills, collaborate on group projects, and participate in meaningful discussions and debates. With the tools, knowledge, and experiential fourth grade curriculum, students move on to Middle School as active leaders.

### **Art**

The fourth-grade art curriculum encourages students to think like artists, build skills, practice various techniques, and make connections to other subjects as well as the world around them. Students have opportunities to choose their own materials and subject matter but are also tasked with creating their own solutions to art challenges with set parameters. While the focus is on the creative process rather than producing a finished product, fourth graders are learning to evaluate and assess their own work. Our spiraling curriculum builds upon skills students have learned in previous years, allowing them to add layers of complexity to their work in both two- and three-dimensional mediums as they grow as artists.

### **Music & Movement**

Fourth grade represents the culmination of students’ musical learning in Lower School. As their knowledge of pitch and rhythm is rounded out, greater emphasis is placed on student-generated material. Students are asked more frequently to work in small groups to choreograph short movement sequences or compose instrumental pieces to accompany their peers’ movement. Recorders

(sometimes introduced in third grade but otherwise always added by the fall of fourth grade) give students their first introduction to playing a wind instrument. They are also the way that the school introduces named pitches on the musical staff. All fourth graders are also invited to join the Lower School choir, which meets after school one day a week.

### **Spanish**

Fourth-grade language courses further student experience of Spanish language and cultures. Exposure is not only to Mexico and Spain but other related nations as well, giving students facility to distinguish between multiple cultures and languages. Studying both spoken and written structures allows students to navigate public spaces and communicate respectfully. While continuing to work with cross-curricular, grade-level academic themes, students also build functional language capabilities. Students develop recognition of major Spanish historical figures and learn about the geography and ethnic diversity of Latinx culture.

### **Computer Science & Engineering**

Computer science and engineering constructs are embedded throughout the fourth-grade curriculum as students begin to leverage digital tools and resources to demonstrate competency in their learning goals and their journey toward digital independence. Investigations into the world of coding and robotics afford opportunities for students to learn to be critical thinkers and problem-solvers. The fourth-grade digital citizenship curriculum is centered around newly introduced collaboration and communication tools such as Microsoft Office 365 and Microsoft Outlook. Students begin to recognize the rights, responsibilities, and opportunities of living and learning in an interconnected digital world.

### **Library**

Fourth graders learn about library procedures and practices and how to navigate the library to find books of interest. They learn how to use the online catalog and practice locating books on the shelves. In the fall, the Texas Bluebonnet Award Reading Program is announced, and all students are encouraged

to participate. This program encourages reading for pleasure for students in grades 3-6 in hopes of exposing children to excellent writers across several genres. Students must read five of the books from the list in order to be eligible to vote. Fourth graders are also given the option to participate in a yearly reading challenge that encourages the students to read books from a variety of genres. Together in class, students also read and discuss a variety of genres and focus on literature skills and concepts covered in the classroom. Fourth graders are also introduced to beginning research skills, such as note-taking, understanding plagiarism, and learning how to create a basic citation. Students learn how to access and use the library's various online resources and databases.

### **Physical Education**

Fourth-grade students participate in Physical Education daily for 45 minutes. The curriculum is focused on various movement activities designed to promote motor and manipulative development, the understanding of a healthy lifestyle, healthy competition, and a positive self-image. Emphasis is on enjoyment, challenge, self-expression, and social interaction within movement experiences. The curriculum also includes an aquatics unit accenting proper stroke development, water safety, and self-confidence during swimming and a climbing unit.

### **Social-Emotional Learning**

Students build and strengthen social-emotional competencies through the MindUP curriculum. Daily repeated practice of mindful breathing hones attentive listening and calming. Students learn about how their brains work and explore becoming mindfully aware of all that is going on around them. As they progress through the curriculum, they practice perspective-taking and optimism, learning about the importance of mindset and how it affects learning and relationships. The year culminates with expressing gratitude and performing acts of kindness, leading to constructive activities to take mindful action in the world and improve the lives of others.

# Middle School Curriculum 2025-2026

## Grades 5-8

Middle School is a time of rapid developmental, intellectual, physical, and emotional growth. The Middle School program is designed to support these fundamental needs with targeted skills development, lively and challenging instruction, opportunities for choice, and strong, supportive relationships. A hallmark of Middle School is the focus on collaborative teaching and learning, and on demonstration of learning in many forms. Faculty work cross-departmentally to build lessons and expectations that apply to all students and topics.

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### FIFTH GRADE

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#### English 5

English 5 stresses the development of narrative, expository, and descriptive writing skills, with special emphasis on paragraphing and organizing ideas. Students also learn to identify basic parts of speech and to use each one intentionally. In addition, students develop reading and thinking skills critical to understanding and appreciation of literary genres. Emphasis is on analyzing the fictional elements of setting, conflict, climax, characterization, and theme. Active reading strategies focus on developing strong annotation skills through explicit practice. A lively free choice reading program and partnership with the library encourage a lifetime love of reading.

#### Fifth Grade Language Carousel

This course consists of a third of the year each of Spanish, Latin, and Chinese. Through the study of culture and grammar, students develop basic language skills, hone fruitful study habits, and instill cultural awareness. Each language study culminates in a celebration of similarities and differences across all three languages. This language carousel focuses on the importance of learning languages and developing strategies that allow students to be successful no matter what language they might study in the future.

#### Math 5

Math 5 emphasizes problem-solving and reasoning in practical situations. It expands on key math topics including counting and number sense, operations and their relationships, and strategies for solving problems. The curriculum delves into broader mathematical concepts such as collecting and analyzing data, understanding probability, exploring geometry, and introductory algebra. Students will investigate the reasons behind mathematical operations to deepen their understanding.

#### Science 5

This course serves as a transition year between the initial exploration of science in the Lower School and more formal inquiries in the years that follow. Concepts studied include those from earth science, life science, environmental science, and physical science with a special focus on the local environment. Students learn how to collect, process, and analyze information and how to use scientific evidence in decision making. Collaborative and hands-on problem-solving characterizes this course.

#### History 5

This course builds profiles of ancient civilizations by examining geography, basic beliefs and values; government and economic systems; social structure, intellectual achievements, and arts and architecture. In-depth studies of ancient Sumer, Mesopotamia, Egypt, Kush, India, and China emphasize how geographical features and resources affect human settlement and behaviors. China also serves as a transition point to focus on human interactions and the cultural legacies of these civilizations, which is continued in the exploration of ancient Greece and Rome. Students build listening and note-taking skills, learn to read and construct maps, develop sequencing, and use evidence to support conclusions. The class utilizes a variety of learning modes, including expository writing, individual project-based learning opportunities, and small-group collaboration.

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### FIFTH GRADE ELECTIVE PROGRAM

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Each fifth grader selects from either Band or Strings for a yearlong music commitment. In addition, each student will participate in a rotation of four courses throughout the year: Choir, Drama 5, Coding, and Visual Arts.

#### Visual Arts 5

In this course, students are introduced to the fundamental techniques and concepts of both two-dimensional and three-dimensional art. There is an emphasis on the elements of art and principles of design through a variety of projects that enhance student awareness of various media. Students participate in exhibitions in the fall and spring, as well as annual off-campus events.

#### Beginning Band: Brass & Woodwinds

Band classes in fifth grade focus on establishing a solid foundation of instrumental technique and musicianship skills that culminates in participation in sixth-grade band, the seventh/eighth grade band, and the Upper School concert and jazz bands. Students may try out any of the following: trumpet, trombone, French horn, euphonium, clarinet, oboe, or flute.

#### Choir

Choir emphasizes the development of vocal technique to be directed toward the choruses in the sixth, seventh, and eighth grades culminating in participation with the seventh/eighth grade Mixed Choir and the Greenhill Singers in Upper School. The main focus of choir is on sight reading, vocal technique, and performance. The fifth-grade choirs perform many times during the year.

#### Strings Green

Strings Green class is available for students who wish to begin the study of violin, viola, cello, or string bass. All prospective string beginners are encouraged to participate in the Jump Start to Strings summer program, which is a concentrated two-week term of daily individual lessons (ten 45-minute lessons total) to be scheduled at the mutual convenience of individual student families and the instructor. There is no fee for this

program, but students and families must commit to a good faith effort during the two weeks. Students are also given some basic instruction in music theory.

### **Strings Gold**

Strings Gold is the intermediate strings class available for students who have been studying violin, viola, cello, or string bass for one year or more. Good habits of technique and of musicianship are emphasized in this class. Students play intermediate-level pieces for string orchestra and are introduced to appropriate works of chamber music. Alternative styles of string playing (fiddle, jazz, pop) are also introduced. Students are also given some basic instruction in music theory.

### **Coding**

Students explore and understand the process of computer programming through the lens of *Minecraft*, a familiar game to many. Students create using both MakeCode (a block-based coding language) and Python (a traditional text-based coding language). Students work on design and problem-solving skills while building in *Minecraft*.

### **Drama 5**

Students are introduced to practices and terms of drama that include storytelling, improvisation, acting, and performing. Students participate in acting exercises that focus on developing the ability to listen and respond truthfully as an actor, vocal support, and technique, as well as exploring improvisational exercises to build self-confidence to trust their instincts.

### **Physical Education 5**

Daily physical education provides students with various activities that contribute to students' physical, mental, and social development. The curriculum promotes safety, self-esteem, discipline, sportsmanship, and positive attitudes about physical activity. Every student is introduced to the skills and basic strategies of team and individual sports, with an emphasis on physical fitness. Activities include swimming, football, volleyball, field hockey, basketball, soccer, track, tennis, lacrosse, and softball and baseball; lifetime activities of swimming, badminton, and tennis; and a tumbling unit.

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## **SIXTH GRADE**

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### **English 6**

English 6 accentuates the appreciation and improved use of all language. Creative writing allows students to polish grammar, spelling, and punctuation skills, become better critics of language use, and develop a personal voice as a writer. Students develop specific skills that enable them to read well independently and to develop an enthusiastic and ever-broadening interest in reading. Students also engage in public speaking and performance of selected works. Across the Middle School, a lively free-choice reading program and partnership with the library contribute to the development of lifelong readers.

### **Math 6: Foundations and Applications**

This course introduces students to foundational algebraic concepts while covering whole number operations, measurement, data representation, and practical applications of mathematics in everyday contexts. Students develop skills in whole number operations, estimation, measurement, percent, geometry, graphing, ratios, proportions, rate and distance calculations, financial applications, exponents, and integers. Problem-solving techniques, including logical thinking, estimation, drawing, and diagramming, are integrated throughout. Students learn to explore the rationale behind each concept and operation.

### **Science 6**

This course continues to build on the collaboration and problem-solving learned in 5th grade but introduces students to more focused science topics as students seek evidence to answer deeper questions about Earth Science concepts. Units include astronomy, energy transfers, atmosphere, weather and climate, hydrosphere, and geology. Within each unit, students will be seeking evidence to answer the essential question, "How do humans influence Earth's processes and how do the Earth's process influence humans?"

### **History 6**

This course helps students explore what happens when different civilizations contact each other and the various forms those

interactions take. It addresses the origins, development, and core beliefs of major world religions; the medieval period in Europe; the impact of medieval Islamic cultures; the events of the Crusades and their impact on Christians, Muslims, and Jews; the importance of trade and cultural diffusion on West African civilizations; and the rise and fall of the Maya, Aztec, and Inca cultures in Mesoamerica. Note-taking and map-reading skills are practiced, as is using evidence to support conclusions in writing. Creative projects, connections to the modern world, and the beginnings of historical analysis in primary and secondary sources complement learning.

### **Chinese 6**

Mandarin Chinese serves as the introduction to the Chinese program at Greenhill. The curriculum includes four main components: speaking and listening comprehension, reading and writing, research skills, and history and culture. In the first year, students lay the groundwork that will support their learning for years to come. Our approach balances experiencing the interconnectedness of the language from the beginning while breaking down the content into manageable parts. This ensures students can grasp the overall structure while mastering individual elements comfortably.

### **Latin 6**

This course exposes students to the culture, history, mythology, and ideals of the classical world while exploring the influence of the Latin language and Roman culture upon our modern society. Diversity is examined in the multicultural nature of the classical world. Students are introduced to the basic morphology, grammar, and syntax of the Latin language. The course is designed to develop the student's ability to read Latin through the use of leveled texts and to enhance the student's understanding of English etymologies. Students acquire a reading knowledge of Latin as they see vocabulary and grammar in context and under controlled circumstances. Reading comprehension questions in Latin and English are used to assess understanding of the texts.

## Spanish 6

This course stresses the importance of language study while providing an opportunity to further develop the students' vocabulary, strengthen their speaking and listening skills, enhance their reading comprehension, and increase their awareness of Hispanic cultures. The course focuses on listening for comprehension and speaking with correct pronunciation. Students acquire topical vocabulary and useful idiomatic expressions. They study basic grammatical structures with an emphasis on regular and irregular verbs and stem-changing verbs in the present tense. Furthermore, students are exposed to the various aspects of Hispanic culture, history, and geography. The class examines the issue of diversity in its exploration of Hispanic life and develops cultural understanding by enabling students to make cross-cultural comparisons.

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## SIXTH GRADE ELECTIVE PROGRAM

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Each sixth grader selects a yearlong music choice (Band, Strings, or Choir) and participates in a rotation of Exploratory Design, Visual Arts, Stage Play, and Communications in the 21st-century.

### Exploratory Design 6

Students design using Tinkercad, a digital 3D design tool that allows students to see their ideas come to life using our 3D printers. Students also create, edit, and share podcasts on topics of their choosing or design and produce how-to crafting videos. Through the different projects, students experience the design process using various real-world digital tools.

### Visual Arts 6

Students are introduced to the fundamental techniques and concepts of both two-dimensional and three-dimensional art. There is an emphasis on the elements of art and principles of design through a variety of projects that enhance student awareness of various media. Students participate in exhibitions in the fall and spring, as well as annual off-campus events.

### Boys Choir 6

Choir emphasizes the development of vocal technique to be directed toward the choruses

in the sixth, seventh, and eighth grades, culminating in participation with the seventh/eighth grade Mixed Choir and the Greenhill Singers in Upper School. The main focus of choir is on sight reading, vocal technique, and performance.

### Girls Choir 6

Choir emphasizes the development of vocal technique to be directed toward the choruses in the sixth, seventh, and eighth grades, culminating in participation with the seventh/eighth grade Mixed Choir and the Greenhill Singers in Upper School. The main focus of choir is on sight reading, vocal technique, and performance.

### Band 6

This course is the second year of band, and it focuses on establishing a solid foundation of instrumental technique and musicianship skills that culminates in participation in the sixth, seventh, and eighth grade band and the Upper School concert and jazz bands. The sixth-grade band performs several times during the year, participates in solo/ensemble contests, and performs music in a variety of styles.

### Strings Green 6

Strings Green 6 class is the second year orchestral strings class for students who wish to continue the study of violin, viola, cello, or string bass. Students focus first on confirmation of basic skills of tone production and left-hand facility then add new skills of bowing, vibrato, shifting and positions. Students are encouraged to perform solos and chamber music on afternoon recitals. In addition to rehearsal at school, students are expected to practice at home daily.

### Strings Gold 6

Strings Gold 6 class is available for students who have been studying violin, viola, cello, or string bass for one year or more. Good habits of technique and musicianship are emphasized in this class. Students play intermediate-level pieces for string orchestra and are introduced to appropriate works of chamber music. Alternative styles of string playing (fiddle, jazz, pop) are also introduced. Students are also given some basic instruction in music theory.

## Stage Play

In this class, students will continue to develop the acting and movement skills developed in the Drama 5 class, focusing on how to create and commit to the given circumstances of improvisations, short monologues, and scenes.

## Communication in the 21st-Century

The one-quarter course for Middle School students serves as an overview of the various communication methods used in the 21st century designed to develop and enhance students' oral communication skills. The goals of the course include fostering confidence, poise, self-esteem, listening skills, delivery techniques, organization, research techniques, and enhanced critical thinking within each student. The course also provides a brief introduction to formal debate, deliberation, and dialog embedded with the curriculum.

## Physical Education 6

Daily physical education provides students with various activities that aid students' physical, mental, and social development. The curriculum promotes safety, self-esteem, discipline, sportsmanship, and positive attitudes about physical activity. Every student is introduced to the skills and basic strategies of team and individual sports, with an emphasis on physical fitness. Activities include swimming, football, volleyball, field hockey, basketball, soccer, track, tennis, lacrosse, and softball and baseball; lifetime activities of swimming, badminton, and tennis; and a tumbling unit.

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## SEVENTH GRADE

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### English 7

English 7 fosters a love of reading, an understanding of various writing styles, and an appreciation of good literature. Students recognize and understand abstract themes with special emphasis on an adolescent's point of view. Short stories and novels are analyzed for plot, character, point of view, voice, historical context, and other literary elements. Students translate their literary insights into well-constructed critical pieces. Traditional and structural grammar is studied within the context of writing. Continual

emphasis is on diverse sentence construction and correct mechanics. Across Middle School, a lively free-choice reading program and partnership with the library contribute to the development of lifelong readers.

### **Math 7: Foundations & Applications**

This course aims to esupportase the transition to algebra and abstract thinking by fostering conceptual understanding. It emphasizes operations involving whole numbers, decimals, and fractions through an algebraic lens, focusing on solving equations. Key topics also include graphing on the coordinate system and problem-solving with an emphasis on identifying and using patterns. The curriculum supplements the textbook extensively to introduce a wider array of mathematical topics and problem-solving strategies. Students engage with calculators and projects to further explore and apply these concepts.

### **Honors Algebra 7**

This course covers a comprehensive study of mathematical topics including numbers and sets, properties of operations, real numbers, equations and inequalities, word problems solved using equations, polynomial factoring, operations involving rational and radical expressions, solving rational and radical equations, systems of linear equations and inequalities, irrational numbers, and solving and graphing quadratic equations.

### **Science 7**

This course uses an issue-based approach to life science to help students understand scientific ideas and processes. The topics covered in the yearlong course include scientific method, experimental design, structure and function of human body systems, cells, genetics, and ecology. Over the course, there will be an emphasis on understanding how organisms live, grow, reproduce, and respond to their environment. Additionally, students will seek to understand how organisms interact with their environment and the effects of these interactions, and how characteristics are passed through generations of individual plants, animals, and microorganisms. Daily work is based largely upon hands-on laboratories, projects, simulations, group discussions, and role play.

The curriculum provides students with a solid foundation for conducting laboratory research and improves their scientific reading and writing.

### **History 7**

This course examines the history of the United States focusing on the themes of freedom and equality. Students explore events and topics from multiple perspectives and wrestle with the nation’s complex history. In addition, discussion of current events is woven throughout the course and students utilize strategies for effectively evaluating information. Students enhance their ability to think critically about history, hone their listening and speaking skills, engage in civil discourse, and further develop their ability to craft claims supported with specific evidence. The course inspires students to connect history to their daily lives and empowers them to act and become engaged citizens.

### **Chinese 7**

This course has four main components: speaking and listening comprehension, reading and writing, research skills, and history and culture, a course of study that fits squarely within the general goal of the Greenhill Chinese program. The seventh-grade year ensures developmentally appropriate engagement with the many aspects of the Chinese language, literature, and culture. Its goal is to lay the groundwork for ongoing success at any level and in any type of Chinese study.

### **Latin 7**

This course exposes students to the culture, history, mythology, and ideals of the classical world while exploring the influence of the Latin language and Roman culture upon our modern society. Diversity is examined in the multicultural nature of the classical world. This course introduces students to the basic morphology, grammar, and syntax of the Latin language. The course is designed to develop the student’s ability to read Latin using graded texts and to enhance the student’s understanding of English etymologies. Students acquire a reading knowledge of Latin as they see vocabulary and grammar in context and under controlled circumstances. Reading comprehension questions in Latin and

English are used to assess understanding of the texts.

### **Spanish 7**

This course employs varied strategies to develop in students a love and a passion for learning Spanish in lively and interesting ways. Students learn to communicate in the language, become more familiar with countries where Spanish is spoken, understand different traditions of Hispanic culture, and increase their desire to explore the Spanish-speaking world. Students participate in a variety of daily oral paired activities that include role-play skits and scenarios, as well as class discussions, dialogues, interviews, and games. They read a variety of short stories and authentic texts, watch video clips and do listening activities, and write simple paragraphs. Students also engage in creative projects with the language and culture that include artistic, digital, and culinary endeavors.

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## **EIGHTH GRADE**

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### **English 8**

English 8 students improve reading comprehension and higher- order thinking by engaging with several compelling texts. Emphasis is on literary techniques and the writing choices made by each author. Students are asked to develop opinions supported by the texts and to write critically using effective thesis statements and evidence provided by the authors. The course includes a free choice outside reading program, as well as frequent collaborative projects. Eighth grade writing instruction stresses the development of creative, expository, and analytical writing skills through familiarity with the writing process: outlining, drafting, editing, and revising.

### **Intro to Algebra**

This course offers students opportunities to master number theory concepts such as divisibility rules, greatest common factor, and least common multiple. It emphasizes foundational algebra skills, including evaluating and simplifying expressions, and applying the order of operations. Students also learn to solve multistep linear equations,

graph linear equations, and apply skills in ratio, percent, proportions, and the Pythagorean Theorem. The final part of the course focuses on geometry, covering spatial concepts, calculating area and perimeter of polygons, and determining surface area and volume of solids.

### **Algebra 8 and Honors Algebra 8**

These courses encompass a comprehensive study of fundamental Algebra topics. Students will explore numbers and sets, properties of operations, real numbers, equations and inequalities, word problems solved using equations, polynomial factoring, operations with rational and radical expressions, solving systems of linear equations and inequalities, irrational numbers, and methods for solving and graphing quadratic equations.

### **Honors Geometry 8**

This Upper School-level course is open only to those who have completed Honors Algebra as seventh graders.

### **Science 8**

Eighth-grade science is an introductory physical science course that addresses foundational physics and chemistry concepts. Essential questions for this course include: "What is the nature of matter?" "How are matter and its interactions described, identified, and categorized?" and "How do scientists do and communicate science?" Students utilize an exploratory investigative approach to identify and analyze conceptual questions, culminating in a deep understanding of a variety of scientific principles. This student-driven discovery process is enhanced by collaborative and guided lab work. Recording data, analyzing their own and others' data, and effectively communicating conclusions drawn from data are essential parts of this course.

### **History 8**

This course examines how internal and external forces shaped continuity and change within China, the Indian subcontinent, and African societies. After establishing an understanding of indigenous identities in the areas, the course explores global interactions, the period of exploration, industrialization, and modern developments. Through various sources and source types, students examine

the implications of events from different historical perspectives, refine note-taking skills, develop analytical thinking skills, and enhance reading and writing proficiency. Information literacy skills are utilized as students explore topics both past and present. Additionally, the course provides opportunities for cross-curricular work as students connect with other disciplines and the world around them.

### **Chinese 8**

This course furthers student engagement with speaking and listening comprehension, reading and writing, research skills, and history and culture. The foundation laid in seventh grade is elaborated upon and extended.

### **Latin 8**

This course continues the study of the culture, history, mythology, and ideals of the classical world while exploring the influence of the Latin language and Roman culture upon our modern society. Diversity is examined in the multicultural nature of the classical world. In this course, students continue to work on the basic morphology, grammar, and syntax of Latin. The course is designed to develop the student's ability to read Latin using leveled texts and to enhance the student's understanding of English etymologies. Students acquire a reading knowledge of Latin as they see vocabulary and grammar in context and under controlled circumstances. Reading comprehension questions in Latin and English are used to assess understanding of the texts.

### **Spanish 8**

This course is centered on language acquisition skills enhanced by digital resources as well as role-play through skits and scenarios, class discussions, dialogues, interviews, and games. It also incorporates literary and artistic features of culture along with basic historical and geographical information.

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## **SEVENTH AND EIGHTH GRADE ELECTIVES**

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*Please note: Not all electives are offered each semester. Each seventh and eighth grade student is enrolled in two electives per semester. Electives can be yearlong or semester-long in duration.*

### **Intro to Acting**

Students are introduced to theater terminology, script reading, and play performance-style improvisation games, with emphasis on character development and comedic timing. *Students must take Intro to Acting or Musical Theater prior to One Act Play (offered in Semester 2) to achieve skill sets and a familiarity with program's expectations.*

### **Intro to Drums/Percussion**

This semester-long course is designed for the beginner-to-intermediate drummer who wants to learn to play a variety of percussion instruments ranging from drumset to percussion keyboards to world percussion and learn about different percussion music genres. They spend time studying important drummers and percussionists and collaborating with classmates to create music in different styles using the instruments they learn.

### **Choir Ensemble (Yearlong class)**

The Middle School Choir Ensemble is comprised of seventh- and eighth-grade students. Musical selections range from standard choir repertoire of classical, holiday and pop music. The choir performs several times during the year, and students also have opportunities for events such as solo contest and honor choir. The skills and techniques developed will prepare students to participate in Greenhill Singers in Upper School.

### **Concert Band (Yearlong course)**

This instrumental ensemble is comprised of intermediate-to-advanced players of woodwind, brass, and percussion instruments. The band learns pop music and standard concert band repertoire. The band performs several times during the year. Students may also participate in All-Region Band Auditions and the Solo/Ensemble Contest. The techniques and skills learned in Seventh/Eighth Band prepare the students for participation in the Greenhill Band in Upper School.

## **Creative Writing**

Students in Creative Writing engage in activities which emphasize creative thinking and develop writing skills. Activities include both prose and poetry – parodies, odes, comic books, and graphic novellas – with an opportunity to explore personal thoughts and reflections.

## **Introduction to Dance**

Middle School Introduction to Dance invites students into the world of movement and expression through an engaging exploration of multiple dance styles, including ballet, jazz, hip hop and modern. Designed as a foundation for both the curious beginner and the budding performer, this course emphasizes body awareness, musicality, coordination, and creative expression. Students will build strength, flexibility, and confidence while learning fundamental dance vocabulary and techniques in a supportive, high-energy environment. Through improvisation, guided choreography, and collaborative projects, students also begin to develop their artistic voice and a deeper understanding of how dance communicates emotion and story. It prepares students for continued study in dance, including participation in Upper School Beginning & Intermediate Dance or future involvement in the Greenhill Dance Company. No previous dance experience is required, just curiosity, commitment, and a willingness to move.

## **Debate I**

This class gives students the opportunity to explore different formats of academic debate and practice the process numerous times through debates against classmates. Students will learn basic tenets of the structure of an effective argument, efficient research techniques, tips on the presentation of arguments, and successful ways to respond to arguments.

## **Debate II**

This class is for students seriously considering debate as an option in Upper School. Students will engage in an examination of competitive debate and focus on issues such as topic analysis, delivery, organization, and research. The course will introduce the policy, Lincoln Douglas, and World Schools debate formats in class. A year-end class tournament

and potential local area tournaments are included in the course. *Prerequisite: Debate I.*

## **Advanced Debate**

This course helps students experience all dimensions of competitive debate. Building on a foundation established in prior Debate courses, the class emphasizes participation in formal debates and will require participation in at least one tournament. The class reviews the basics and introduces advanced forms of argumentation, research, evidence comparison, cost-benefit analysis, note-taking, audience adaptation, and best practices in contemporary debate theory. Students will focus on either Lincoln Douglas Debate, Policy Debate, or World Schools Debate.

## **Evergreen Middle School**

This introductory class will expose students to the basics of journalism and writing for The Evergreen. Students will learn how to define news; how to gather and organize information; how to write news and feature “leads”; and how to write complete news stories, features and profiles. The basics of news photography and design will be discussed, along with journalism ethics and bias. Students will write for the online or print editions of the Evergreen as they develop skills needed for Introduction to Journalism in Upper School.

## **Figure Drawing I & II**

Students in the figure drawing studio will learn to draw the human form and develop proper proportions for their figures. Students will gain a better understanding of how to utilize Gesture and Contour Line drawing to develop their Figure Drawings. Students will use a variety of mediums like charcoal, soft pastels, graphite, and ink to produce their pieces. As the semester progresses, students will learn about Color Theory and Abstraction.

## **Graphic Design**

The purpose of this course is to give students a core understanding of how graphic design impacts us every day and how to master the basics of good graphic design. This course explores graphic communication through the understanding of the elements and principles of design, such as color theory, composition, and emotional font selection. Students in the course will learn about the following disciplines: advertising, graphic design, web

design, and illustration. Students will also learn to use industry tools such as Adobe Photoshop and Adobe Illustrator to bring their designs to life with product designs and vinyl work.

## **Introduction to Innovation**

Introduction to Innovation is an engaging elective where students will learn essential innovation skills. Through hands-on experiences, students will become proficient in using tools in the Innovation Lab like laser cutters, 3D printers, basic hand and power tools, and other larger tools like the drill press and bandsaw. The course fosters creativity, critical thinking, and problem-solving through our design thinking principles. Students will engage in project-based learning, including a significant end-of-semester project. This course aims to equip students with the mindset and skills necessary to thrive in a world that values innovation and problem-solving, preparing them to become future innovators and change-makers.

## **Guitar/Keyboard Music**

In this class students choose an aspect of music to cultivate over the semester and work on it alone or in small groups as the instructor rotates from group to group, listening and offering instruction. By working in small groups, students have the opportunity to enjoy playing chamber music and to learn from each other as well as from teacher’s instruction. In addition to rehearsal at school, students are expected to practice at home daily.

## **Jewelry**

Discover the art of jewelry making through the exploration of techniques and mediums from across the globe. This hands-on course is designed for seventh and eighth grade students and focuses on creating wearable jewelry pieces with wire, metal, clay, and beads while practicing traditional and contemporary techniques.

## **Middle School Improv 1**

Students learn basic elements of improvisational comedy and discover how spontaneity can make improv an enjoyable experience for all. Students will learn how to utilize suggestions from the audience in a brief scene or skit, called short form improv.

They are introduced to the methods involved in developing a scene, a variety of character-building activities, and games and exercises for developing improv skills. Students will leave this course with a better appreciation for the diversity of ideas expressed by their peers and a better sense of what a contributing member of a team can help to create. Materials needed are an open mind and a good sense of humor.

### **Middle School Improv 2**

This course takes the concepts and techniques introduced in Improv 1 and applies them to a variety of more advanced individual and small group games and exercises. Emphasis will be placed on developing a well-structured cohesive story line, realistic conflicts, (somewhat) believable resolutions, creating unique characters, using appropriate physicality, improving comedic timing, and maintaining a consistently high level of performance energy. Students will work together to develop and share ideas to reach a common goal, while improving their stage presence and confidence level. Student progress culminates with the production of a small student-directed performance.

### **MS One Act Play Production (semester two)**

In this course students prepare and perform a play for the community. The focus is on character & plot analysis, movement & blocking to enhance the storytelling, and creating a relationship with the audience.  
*Prerequisite: Completion of Introduction to Acting or by instructor approval.*

### **Online Entrepreneur: Becoming a Content Creator**

Students will learn the skills needed to create weekly podcasts and videos for platforms such as Wonderly, YouTube, and others. These skills will include research, preparation, recording, editing, and publishing. Software tools such as OBS (Open Broadcast Software) Studio, Adobe Premiere Pro, and Adobe After Effects will be taught to allow the class to create engaging video content. Students will also learn from professionals in the industry about what it takes to get started in the field.

### **Photography (Beginning)**

This course is an exploration in digital and analog photography using point and shoot cameras, digital negatives, and black

and white chemistry. Students learn the intricacies of lighting, composition and form while accomplishing assignments for use in the traditional black and white darkroom. Photoshop retouching skills are learned to further integrate technology with traditional photographic methods. Color theory and apps are learned towards the end of the course. No previous experience necessary.

### **Photography (Advanced)**

Students will further explore analog methods using highly experimental techniques. These include silver gelatin toning, Sabattier printing methods, Solargraphs, Pinhole, Encaustic and Resin, and other Polaroid methods. This class mimics the Upper School course, Abstract and Experimental. Beginning Photography is a prerequisite for this course and this class.  
*Prerequisite: Photography (Beginning).*

### **3D Design**

In this course, students will learn how to 3D model using Onshape, an industry-grade software. Students will learn how to model whatever they select from mechanical parts and toys to fashion and jewelry. Once students have modeled their creations, they will learn how to 3D print and laser-cut them in various materials. Skills learned in this class can be used in product design courses and will be applicable to other 3D software, such as 3D animation.

### **Robotics**

In this dynamic class, students dive into teamwork, problem-solving, coding, team management, and the design process. They collaborate with peers to construct robots and tackle challenges, honing communication and cooperation skills. They will employ coding languages like Python and Scratch, mastering logical thinking and algorithmic problem-solving while also learning team dynamics, leadership, and time management.

### **Ceramics**

Students will learn various methods of working with clay. Beginners will learn hand building techniques including coil, soft slab, stiff slab and finishing techniques. The class will also explore figurative sculpture with clay. Students that have already taken Ceramics (primarily 8th graders) may begin to work on the potter's wheel and learn how to measure glaze materials and assist in making glazes.

### **Sinfonia (yearlong course)**

Greenhill Sinfonia, Greenhill's Middle School String Orchestra, is open to intermediate to advanced level 7/8th grade String students. Sinfonia rehearses and performs appropriate orchestral works from the standard classical repertoire, as well as music by contemporary composers of educational music. Playing chamber music is an important part of Sinfonia's program, whereby students rehearse in trios or quartets, at times with coaching, other times rehearsing on their own. Private lessons are greatly encouraged but not required. Students, however, are expected to practice regularly and prepare for each rehearsal. Greenhill Sinfonia is a year-long course.

### **Technical Theater I**

This course introduces students to a broad range of skills and knowledge related to Technical Theater. With a strong focus on "doing," the class focuses on the basics of scenic construction, including the safe and proper use of many tools and materials. Other areas of design and production are also covered including set design, lighting, sound, makeup, and costumes. Students are actively engaged in the creation of sets, lights, and props for Greenhill Theater productions.

### **Technical Theater II**

In Technical Theater II, students build upon and expand the knowledge and skill set they developed in Technical Theater I. They are exposed to more advanced techniques and are encouraged to meet the higher expectations of an advanced class. Projects vary each semester and are based on the program's needs and areas of student interest. Technical Theater II students are further involved with supporting Greenhill Theater productions, including opportunities to crew Middle School productions.  
*Prerequisite: Technical Theater I.*

### **Video Production**

Middle School Video Production students write, produce, shoot, and edit a film all on their own as a large group. They use the same materials that the Advanced Video Production (AVP) students use to make the films that have made Greenhill one of the most decorated film production schools in the nation. No film experience is necessary, just the desire to be part of a filmmaking team.

## Creative Coding

The creative coding class teaches skills used in game creation using the game engine Flowlab. Students will learn how to use flow-based visual logic to create engaging and visually appealing experiences without the need for text-based coding. Additionally, students will acquire UI/UX best practices employed by industry professionals at major game companies such as Blizzard, EA Games, and Riot, enabling them to design games that are both fun and enticing to players.

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## MIDDLE SCHOOL ATHLETICS

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In seventh and eighth grades, students may join athletic teams for interscholastic competition. Across the three sports seasons, students may choose from:

- Baseball
- Basketball (boys and girls)
- Cross Country (boys and girls)
- Field Hockey
- Football
- Golf (boys and girls)
- Lacrosse (boys and girls)
- Soccer (boys and girls)
- Softball
- Swimming (boys and girls)
- Tennis (boys and girls)
- Track and Field (boys and girls)
- Volleyball (boys and girls)

## Physical Education in the High Performance Center 7/8

Students select either physical education classes or the opportunity to join a competitive athletic team. These programs are offered simultaneously during the school day, with competitions after school. Physical education includes tennis, swimming activities, badminton, team handball, floor hockey, ultimate frisbee, strength and conditioning, dance, and activities that emphasize fitness and competition. The emphasis is on fostering healthy attitudes toward physical fitness, developing a positive self-concept, encouraging desirable social interactions, and building good sportsmanship.

### Middle School Dance

The Middle School Dance program offers a dynamic exploration of various dance styles and serves as an athletic credit option. Students will delve into ballet, hip-hop, modern and other genres, focusing on technique, creativity, and teamwork. Through lively routines and engaging choreography, participants enhance physical fitness while cultivating self-confidence and artistic expression. The program provides a journey of discovery, passion, and fun, fostering an inclusive environment where dancers of all levels can thrive.

# Upper School Curriculum 2025-2026

## Upper School Curriculum Contents

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## Introduction

This section is intended to provide an overview of Upper School courses and graduation requirements for the 2025-2026 academic year. For students who enroll, the requirements for graduation in the box on page 2 should serve as a guide in making course selections. These requirements ensure an appropriate distribution of courses and areas of study while allowing students a measure of individual freedom of choice to pursue their own interests.

Faculty members serve as academic advisors and play an important role in shaping a student's course of study and extracurricular participation. Advisors and college counselors work together to assist students in the course selection process to help students plan a curriculum that not only provides appropriate background for further study but also takes into account the student's abilities and interests. In addition to the assigned advisor and college counselor, students and parents may also consult teachers, department chairs, or other administrators when planning a course of study.

Since Greenhill is a college preparatory school, the basic curriculum is accelerated and intensive. To meet the needs of students who have demonstrated both special abilities and interests, honors and Advanced Placement (AP) courses are offered in many subjects. Students are recommended for AP or honors courses based on that student's demonstrated ability, personal motivation, intellectual desire, and other departmental information. Students who enroll in honors or AP-level courses should expect a more in-depth exploration and a heavier workload in those courses. Each student's strengths, goals, and extracurricular commitments are different, and thus the course planning and selection process is a very individual one. We encourage students to challenge themselves in areas of strength and interest, but we also remind all students that a balanced life and curriculum is critically important. A student is considered fully enrolled every semester if that student is in a minimum of six courses: five from academic departments with course numbers beginning with 1-5, and one from the design & innovation department, fine arts department, or PE department within the academic day. However, from a college admissions perspective, most students are best served and best prepared by studying each academic discipline each year and preferably each semester.

## Requirements for Graduation

### Department

#### COMMUNITY SERVICE

- 18 hours in grades 9 & 10
- 24 hours in grades 11 & 12

#### DESIGN & INNOVATION

- 1 semester of Design & Innovation

#### ENGLISH

- Full year of 1010 English (9th)
- Full year of 1020 English (10th)
- 1 semester of 1730 Narrative Nonfiction (11th)
- Juniors and seniors must complete an English elective every semester of 11th and 12th grade. In 11th grade, students must complete 1730 Narrative Nonfiction as one of their electives.

#### FINE ARTS

- 4 semesters of Fine Arts classes

#### HISTORY AND SOCIAL SCIENCE

- Full year of 4010 Global History
- Full year of 4020 U.S. History
- 2 semesters during 11th & 12th grades; at least 1 semester must be a Government course

#### MATHEMATICS

- 6 consecutive semesters starting in 9th grade

#### MODERN AND CLASSICAL LANGUAGES

- 4 consecutive semesters starting in 9th grade
- Students must demonstrate competency through Level III of one language

#### PHYSICAL EDUCATION/ATHLETICS

- 9th Grade: Foundations of Fitness and Wellness is a required course for all 9th grade students. Plus 1 semester of another Physical Education or 1 season of Team sport.
- 10th Grade: 2 semesters of Physical Education or 1 semester and 1 season of Team Sport or 2 seasons of Team Sport
- 11th Grade: 1 semester of Physical Education or 1 season of Team Sport
- 12th Grade: 1 semester of Physical Education or 1 season of Team Sport

#### SCIENCE

- Full year of Physics (9th)
- Full year of Chemistry (10th)
- Full year of Biology (11th)

## Cross-Listed Courses

*Students must declare the department number for any cross-listed course by the add deadline of the semester the course is in.*

Chemistry of Photography	Fine Arts (6140)	Science (5340)
Beginning and Intermediate Dance	Fine Arts (6190)	PE (8565)
Theater: Musical Production	Fine Arts (6450)	PE (8560)
Greenhill Dance Company	Fine Arts (6440)	PE (8570)
Design of Immersive & Interactive Art	Fine Arts (6005)	Design & Innovation (9610)

## NCAA Eligibility

Students who wish to play Division I or Division II sports in college must meet the eligibility requirements of the National Collegiate Athletic Association (NCAA). Eligibility is determined, in part, by completing a specified number of NCAA-approved classes in the subject areas of English, History/Social Sciences, Science, Mathematics, and Foreign Language. Almost all Greenhill courses in these areas meet eligibility requirements. However, a small number of our courses are NOT NCAA-approved, typically because they are too interdisciplinary in subject matter to meet the NCAA's narrowly defined requirements. Academic advisors and college counselors work with students considering Division I or II sports to select courses for a curriculum that will ensure NCAA eligibility. Students can also contact the Greenhill College Counseling Office for guidance.

Courses that are NOT NCAA-approved include Design & Innovation courses, Advanced Tutorials in English, Writing Tutorial, Reading Tutorial, Tutorials in History/Social Studies, Advanced Tutorials in History/Social Studies, Finance and Accounting, Advanced Tutorial in Mathematics, Advanced Tutorials in Modern and Classical Language, Chemistry of Photography, and Advanced Tutorials in Science. The Literature of Human Rights course may only count for English credit for NCAA eligibility purposes. The History of Human Rights course may only count for History/Social Sciences credit. Many Global Online Academy courses are approved by the NCAA. Please confirm approval status with the College Counseling Office or the Global Online Academy Site Director.

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## GRADUATION REQUIREMENTS

The academic year features a program emphasizing breadth and skill development. The basic unit of measure is the credit, representing the equivalent of a six-week course. Thus, a semester course is a three-credit course, and a full-year course is a six-credit course. Credits are earned by passing a graded course with a grade of D- or better or by passing a course designated as Pass/Fail. The graduation requirements consist of departmental requirements and completion of a minimum of six courses each semester.

## COLLEGE PREPARATION

Greenhill's graduation requirements provide students with more flexibility in course selection for grades 11 and 12. Students, parents, and advisors are urged to keep in mind that colleges evaluate students in good part by the course selection reflected on the transcript. Many selective colleges will expect students to have more academic credits than Greenhill's academic requirements. Additionally, highly selective colleges care deeply about the level of academic challenge students have taken.

Consequently, it is vital both to select a range of academic subjects and to think carefully about choosing appropriately challenging classes in all academic areas. Colleges do not look favorably on transcripts that are light on academic challenge or overly skewed in any direction. The more selective the college, the greater the expectation that students will challenge themselves within the context of Greenhill's academic offerings.

Students are encouraged to pursue their academic and co-curricular interests, but should remember that colleges are looking for evidence of a balanced course of study.

## ADVANCED PLACEMENT COURSE PROCEDURES AND POLICIES

Students may take up to three AP courses per year, in grades 11 and 12 only. (In exceptional cases, especially where students have run out of other courses and the next appropriate courses are all APs, a student in grade 11 or 12 may take a fourth AP course.) In certain cases, particularly in Science and Computer

Science, a small number of grade 10 students are allowed to take one AP course. The only AP course available to grade 9 students is AP Physics 1, only for those students who are recommended for it, are concurrently enrolled in Honors Algebra II (or a higher level), and pass a placement test.

With the exception of AP Government, AP courses follow a yearlong college-level curriculum and culminate with an examination given in May. These examinations are given on campus at Greenhill, and students must pay a fee for each examination (though this fee is covered for students who qualify for supplemental Financial Aid).

Students taking a Greenhill AP course are required to take the examination in that course. It is important to note that not all colleges give credit hours or advanced standing for AP test scores, regardless of score or discipline. Therefore, individual college curriculum guides must be consulted for precise policies. Greenhill's AP courses are listed with an accompanying "AP" to distinguish them from the other advanced courses offered in the curriculum. Prerequisites for enrollment in an AP course are specified within each AP course description.

Students in grades 11 and 12 may elect to take AP exams in subjects not offered by Greenhill, on a "self-study" basis, though Greenhill does not encourage this. Exam scores not connected to Greenhill coursework do not have a significant effect on students' college admission outcomes. In a case where a student has a strong interest in the subject, as well as time to study it on their own, a self-study AP exam is an option, but most students do not pursue such AP exams, nor do they need to. Students may not self-study for exams in subjects offered at Greenhill; students must be enrolled in those courses before taking the exams.

Students in grade 10 may elect to take one AP exam in a subject not offered by Greenhill, on a "self-study" basis; students in grade 9 may not take AP exams in subjects not offered by Greenhill. In the larger context of college admission evaluation, courses taken at Greenhill (at any level, not only AP) carry more importance than scores on AP exams

taken independent of school coursework. Greenhill does not offer the AP Pre-Calculus exam.

## THE CAPSTONE PROJECT

### The Capstone Project (7900)

Full year

The senior capstone project provides outstanding seniors with in-depth exploration and study in a self-selected area of interest. This student-driven project requires advanced, independent, and interdisciplinary study that culminates in an exhibition of a final product. This yearlong experience also requires students to develop an idea, explore further understanding, and create an innovative product based on their analysis, synthesis, and unique presentation of learning outcomes.

A senior capstone experience culminates in a wide variety of projects, such as traditional academic research papers, creative writing projects, fine arts performances, or other unique presentations. Students must work closely with both a Greenhill faculty mentor and a professional mentor who will guide the student's project closely throughout the year. By combining their current interests with relevant learning, students gain valuable experiences throughout their capstone project that will apply to future endeavors.

A student's capstone project proposal must include the following:

- A clear statement of focus that includes the motivation behind the topic
- A proposed bibliography/contact list (where applicable), including a list of outside expert(s)
- A list of credits/courses sought (maximum of 12) and the rationale;
- The name of the mentor

To receive more details and to obtain a proposal form, a student should contact the Director of Academics.

# Community Service

In keeping with the school's core values, Upper School students are expected to experience and learn about different community needs as a requirement for graduation. The goal of the community service program is for students to build an awareness and understanding of genuine community needs and how their actions, large and small, can make a difference.

As students identify and select their community projects, they begin to see themselves as leaders and resources in the community. By serving their community, students are using critical thinking and problem-solving skills in new and challenging ways and ultimately changing their views of themselves and the world they live in.

The school's service aligns with the school's mission and vision because we see our world more hopeful because of the Greenhill community.

*Note: Please see the Upper School Community Service box at right.*

## Upper School Community Service

The community service guidelines have been updated for the 2025-2026 school year. Please note these guidelines are subject to change for the 2026-2027 school year.

### Upper School graduation requirement:

Upper School students are expected to complete a minimum of 42 hours of community service during their four years in Upper School. All students are encouraged to exceed the minimum requirement.

### A minimum of 18 hours during 9th and 10th grades

- Students may begin accumulating this block of hours June 1, the summer before their 9th grade year.
- Service hours may come from virtual, in-person, or for-school volunteer opportunities.
- A new student entering the 10th grade is required to complete at least nine (9) hours of service by the last day of the 2025-2026 school year.
- For students in the Class of 2028, it is expected that all service hours are submitted and verified by the last day of the 2025-2026 school year.

### A minimum of 24 hours during 11th and 12th grades

- Students may begin accumulating this block of hours June 1, the summer before their 11th grade year.
- Service hours may come from virtual or in-person volunteer opportunities. **For-school volunteer hours will not count towards the 24 hours graduation requirement.**
- For students in the Class of 2026, it is expected that all service hours are submitted and verified by January 31, 2026.
- Students must complete a service project between the summer before their 11th grade year and January 31 of their 12th grade year. 12 of the 24 hours will come from the service project. More details about the service project are available in the all-school handbook.

### Summer hours begin June 1, 2025.

**All summer hours and the previous school year's hours (if applicable) must be submitted by September 30, 2025.**

### Community Service Guidelines

Greenhill School defines community service as time contributed to a nonprofit 501c3 organization. Service can be done onsite, virtually, or through a school-sponsored community service project. As a rule, the community should be benefitting from your volunteer service and you should not be receiving payment for your service.

Greenhill School defines "for-school service" as time dedicated to serving the school's internal community, including but not limited to its faculty, staff, groups, divisions, or departments. This type of service focuses on activities or contributions that directly support and benefit the people and operations within Greenhill School.

There are many volunteer opportunities that DO NOT meet the Community Service Guidelines. Students should request pre-approval from the Director of Service Learning and Community Engagement prior to performing community service outside the above stated guidelines.

For more information about service guidelines, opportunities, FAQ, and more, please refer to the Service Resources page on MyGreenhill.

# Design & Innovation

*The Design & Innovation department and program's goal is to provide students with an opportunity to learn how to become innovators as it has been defined by industry. The definition of innovation is the overlap of human need, technical feasibility, and business viability (or self-sustainability).*

*From this definition, the Design & Innovation program has been designed to teach students how to:*

1. Identify relevant problems
2. Solve problems technically
3. Make their solutions profitable or self-sustaining

*Innovation is about story, design, the human experience, and entrepreneurship, not just about technology, robots, and engineering.*

*If you see yourself as a highly technical person, please join us to explore this more deeply. You will learn about how impactful it can be to discover what problems people really need solved and how to solve them in elegantly simple and beautiful ways that can be productized.*

*If you see yourself as someone nontechnical, please join us to tell your story, design your dream, and see how easy it can be to make your ideas physically come to life. Come experience how this newfound knowledge will inspire your next dream.*

## Design & Innovation Graduation Requirement

All students are required to complete one semester of an offering under the Design & Innovation program to satisfy their graduation requirements. Courses are offered in both semester and yearlong variations. Although one semester is required, two semesters of credit will be given for yearlong courses.

### Introduction to Engineering I (9110)

1st or 2nd semester; 3 credits

This course serves as an interactive way for students to get exposed to a variety of engineering processes while creating a fun project. Within the course, students will be introduced to the Arduino microcontroller platform, learn and leverage basic computer science principles to control various sensors and actuators. Students will also explore 3D modeling, 3D printing, 2D mechanical design, and 2D CNC processes, such as laser cutting. Skills learned will be applied through solving a problem selected by each student. Examples of past projects include innovative clock designs, an audible system to help guide the blind, IoT-enabled light-up "heart messaging" devices, and more. The first half of the semester will be dedicated to learning skills, while the second half will be dedicated to completing your project. Each class will culminate in a "showcase" of student work.

### Introduction to Computer Science: Game Design (9200)

1st semester; 3 credits

In this hands-on course, students will explore the fundamentals of computer science through the creation of video games. Using the Unity game engine and C# programming, students will learn essential CS concepts such as variables, methods, conditionals, loops, object-oriented programming, instantiation, inheritance while using game engines and 2D game physics. They will design and implement game mechanics, handle user input, and apply basic debugging strategies. The course culminates in a fully functional 2D game project that demonstrates programming, creativity, and problem-solving skills.

### Design Thinking to Open Entrepreneurship (9310)

Full year; 6 credits

In this course, students will experience and learn the entire process of developing a solution, from identifying the right problem to solve to building functional products to creating a business plan and pitch deck to raise money from venture capitalists. Past projects included apps, business, products and machines. During the course, students will learn industry-proven processes such

as ethnographic research, design thinking, prototyping to learn, and Lean Startup methodologies. Students will learn how to determine the size of their market and how much money is needed for success. By the end of the course, students will have a solution that is market ready.

### Honors Design Thinking to Open Entrepreneurship (931H)

Full year; 6 credits

Prerequisite: Design Thinking to Open Entrepreneurship & department approval

After successfully completing Design Thinking to Open Entrepreneurship, students may continue their journey mastering the skills they have learned. Students will be required to develop their own project plan and deliverables working either in a group or on their own. Projects may be a continuation of a prior DTOE project, a venture capital funded endeavor or a brand-new idea. Emphasis on the three core lenses of Design & Innovation, human-centered design, technical feasibility and business viability will be required.

### App Development (9320)

1st or 2nd semester; 3 credits

Through this course, you will learn how to build your own iOS or Android app using various prototyping tools to wireframe ideas to test functionality and user experience (UX) and finalize an app that you can publish on Google Play and the Apple App Store! Students will learn digital prototyping methods and how to design for and analyze the effectiveness of various user experiences, learn graphic design fundamentals and how to code the functionality of an app.

### UX Design & Exploration (9330)

1st or 2nd semester; 3 credits

UX Design & Exploration will teach students how to explore, tell the stories of, and design human experiences. Why is this important? Because these experiences drive consumer choice. Think about the experience of a Chick-fil-A drive-through vs. a McDonald's drive-through, standing in line for a ride at Disney World vs. Six Flags, or visiting an Apple Store vs. a Best Buy. These experiences have dramatic effects on consumer choice and a business's success. Within this course, students will learn the skills to

assess and design user experiences through methodologies such as journey mapping, the five E's model, persona development, and others. Students will then learn how to build, prototype, and test user experiences that they develop.

### **Applied Computer Science (9400)**

Full year; 6 credits

Prerequisite: Departmental approval

During this course, students will learn and use professional processes and procedures to solve computer science problems. The problems that students will work on come from various sources inside and outside of the Greenhill community. The process students learn will allow the teams to successfully deliver their solutions to their client by the end of the year. Students should expect to work collaboratively within groups where the focus will be on learning how professional code development is accomplished.

### **Honors Applied Computer Science (940H)**

Full year; 6 credits

Prerequisite: Applied Computer Science & departmental approval

After successful completion of Advanced Computer Science, students may elevate their Computer Science skills while creating professional deliverables. Students will work with real customers, driving the project timelines, and creating professional content. Students will work with their classmates to create dynamic applications to solve real problems.

### **AP Computer Science A (9420)**

Full year; 6 credits

Prerequisite: First year high school algebra with teacher recommendation, and department approval. Student must also be in grades 10-12.

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

### **Robotics (9500)**

Full year; 6 credits

Prerequisite: Departmental approval

Students taking this course will be a part of Greenhill's FIRST Tech Challenge competition robot team(s). Robotics challenges will change each year and are driven by US First. Students will learn how to design a strategy for the challenge, develop team dynamics, build various electro-mechanical systems, and program their robot with Java. Students will be expected to participate in class, work outside of class as well as attend off-campus competitions.

### **Honors Robotics (950H)**

Full year; 6 credits

Prerequisite: Departmental approval & Robotics or Automation

After successfully completing Robotics, students in this Honors level course will work as a part of the FIRST Tech Challenge team alongside students in the Robotics course. However, honors students will be expected to take on the more challenging aspects of the competition as well as act as mentors to less experienced students. Honors students will also be expected to manage timelines and deliverables. Honors students will be expected to participate in class, work outside of class as well as attend off-campus competitions.

### **Automation (9520)**

Full year; 6 credits

Prerequisite: Departmental approval

Students in Automation will be presented with a variety of problems for which they will need to build functioning automated solutions. Some examples will be from external companies, and some will be challenges to build skills and explore. Examples of projects might be to build pick & place robotic assembly, work with collegiate labs exploring AI and robotics, or building an automated machine of your choice such as a two wheeled self-balancing robot or automated pizza making machine.

### **Design of Immersive & Interactive Art (9610 DI or 6005 FA)**

Full year; 6 credits

Students may enroll in this course for either Design & Innovation or Fine Arts credit

In partnership with the department of visual arts and the department of innovation, instructors will lead students through a course where they will explore and develop interactive art. Design of Immersive & Interactive Art students will learn how to integrate art with technology to design and create unique experiences. These experiences may be embodied in an immersive 2D/3D art installation, robotics, games, or augmented performances using a variety of media and materials. Students' culminating piece will be a fully functioning and installed piece of art. Patrons don't just look at the visual aesthetic but are able to interact with the art. The work that is developed should recognize the presence of an individual, understand at least at a basic level their engagement with the piece, and must respond intentionally and intelligently to the patron.

### **Advanced Topics Tutorial (9920)**

1st or 2nd semester; 3 credits

Prerequisite: Permission from instructor and approval by the Head of Upper School and the Design & Innovation Department Chair are required.

This class allows students who have prior Design & Innovation experience, are self-starters, and have scheduling conflicts to explore a variety of advanced topics related to Design & Innovation. Students can explore independent work that builds on prior projects or new initiatives. Students in this graded course will have very high expectations for self-governance and project management. Student goals will be agreed upon at the beginning of each course and will only be adjusted under unique circumstances.

### **NOT OFFERED IN 2025-2026**

Digital Game Design (9130)

Honors UX Design (933H)

# English

For five thousand years, humans have employed reading and writing to make sense of themselves and their surroundings. The Greenhill Upper School English department explores how literature has been a necessary form of expression to develop the mind, body, and character in humans throughout history.

English 9 and 10 are required yearlong courses: English 9 traces the development of literature and human thought through the classical, medieval, and early-modern periods. English 10 continues to examine literature as a necessary form of expression through Romanticism, Realism, and Modernism. Juniors and seniors take semester electives. While students are encouraged to write in new forms and read works representing diverse voices and experiences, they are also urged to sharpen their critical writing skills and deepen their study of favorite authors. Students in grades 11 and 12 must take and pass an English elective every semester. The only required course is Narrative Nonfiction, which is offered the second semester of 11th grade. The minimum requirement for a student to pass each English course is to submit all assignments for the class.

Greenhill's US English department teaches students to craft writing for a variety of audiences and purposes. All writing reflects critical thinking and creativity, which can take the form of traditional argumentative essays, personal narratives, creative nonfiction, and creative writing (both poetry and prose). Students in the Upper School read critically across a rich array of voices and genres for a greater understanding of diverse perspectives. When students complete their four years of study in the Greenhill English department, they are prepared for critical, imaginative, and empathetic engagement in the world.

## Distribution of graded semester-long English courses by semester

### 11th grade required:

2nd semester - Narrative Nonfiction: Finding Your Voice (1730)

## 11th/12th Grade Electives: Juniors and seniors must complete an English elective every semester.

1st semester	2nd semester
Modern Fiction (1110)	Modern Fiction (1110)
Reading and Writing Short Fiction (1120)	Sublime Darkness: Gothic Literature and High Romanticism (1130)
Sublime Darkness: Gothic Literature and High Romanticism (1130)	Literature and Detective Fiction (1190)
Frontier Literature and American Identity (1140)	Literature of the American Wild (1210)
Global Literature (1150)	Race & Subjectivity in Literature (1350)
Literature and Detective Fiction (1190)	Literature and Philosophy (1420)
Literature of World Religions (1410)	Social Class in Literature: Class on Class (1555)
Literature and Philosophy (1420)	Narrative Nonfiction: Finding Your Voice (1730)
Multicultural Literature: Survey of Modern Poetry (1530)	
Women's Literature (1620)	
Creative Writing (1710)	
Nature and Uses of Language (1720)	

## NINTH GRADE

### **Ninth Grade English: Tales That Tell Us Who We Are: The Evolution of Human Consciousness in Literature, Part I (1010)**

Full year; 6 credits

In addition to the main theme of humanity's continuing search for answers through writing, English 9 explores enduring concerns such as the relationship with the divine, concepts of virtue and the heroic ideal, the individual versus community, the search for the promised land/utopia, the search for identity, human possibilities versus human limitations, and conceptions of truth. Students study texts from a variety of traditions as they read for patterns and develop their critical-thinking skills.

Since writing is essential to the student's success in all academic areas, instruction in composition emphasizes not only imaginative patterns of thinking but also clear and persuasive expression of ideas. Classes include a focus on writing skills such as generating a thesis, organizing clear patterns of thought, phrasing sentences effectively, developing analytical paragraphs, revising, and editing.

## TENTH GRADE

### **Tenth Grade English: Tales that Tell Us Who We Are: The Evolution of Human Consciousness in Literature, Part II (1020)**

Full year; 6 credits

This course builds upon skills developed in Ninth Grade English so that students may become stronger readers, writers, and thinkers. Students examine U.S.-based literature to consider how literature responds to and shapes identity, oppression, culture and belonging, and power and voice. Tenth grade students write critically and creatively in response to their readings, enabling them to experience the artistic endeavor from both perspectives.

In addition to critical essays, students may write stories, poems, plays, explications, personal narratives, and response journals. Classes include a focus on writing skills such as generating a thesis, organizing clear patterns of thought, phrasing sentences effectively, developing analytical paragraphs, revising, and editing.

## ELEVENTH GRADE

*Juniors must take Narrative Nonfiction second semester of junior year.*

### **Narrative Nonfiction: Finding Your Voice (1730)**

Required for juniors  
2nd semester; 3 credits

We tell stories to reveal and share how we think and feel about the world and ourselves. This course focuses on rhetoric as a means to self-knowledge. Students use rhetorical modes such as description, narration, exposition, and persuasion as tools to identify, develop, and craft their voices. In addition, students learn how to pair audience and purpose. The course also includes opportunities for public expression of these skills coupled with personal reflection.

## ELEVENTH & TWELFTH GRADE ELECTIVES

*Juniors and seniors must complete an English elective every semester. The department offers a wide array of courses, so students can tailor their course of study according to their passions and interests. All electives are AP preparatory, and, for those students interested, the Language and Composition exam is offered at the end of junior and senior years.*

### **Modern Fiction (1110)**

1st or 2nd semester; 3 credits

This course explores the development of prose fiction in the recent past and builds upon the foundation established in earlier courses. Particular attention is given to the changes literature has undergone in the post-modern period. Readings include selected works by such diverse authors as Saul Bellow, Jorge Luis Borges, Anthony Doerr, Elena Ferrante, Etgar Keret, Valeria Luiselli, Toni Morrison, Haruki Murakami, and Zadie Smith.

### **Reading and Writing Short Fiction (1120)**

1st semester; 3 credits

In her essay on writing short fiction, Flannery O'Connor states that a short story is "a complete dramatic action" that "should be long in depth and should give us an experience of meaning." Indeed, for all of its relative brevity, a good short story can pack a sizeable, memorable, and even transformative punch. The course explores

how this artistic form creates such a powerful effect, and discussions center on both literary interpretation and the creative process. The assessments reflect both ends of this spectrum, ranging from an analytical essay to a fully realized short story. Student groups also have the opportunity to teach a story of their choosing. In gaining a fuller understanding of the craft of writing short fiction and developing their own creative voices, students experience a variety of perspectives, places, time periods, styles, techniques, and themes. Authors have included Flannery O'Connor, James Joyce, Gabriel García Márquez, Helena María Viramontes, Ralph Ellison, Edgar Allan Poe, Bernard Malamud, Amy Tan, Alice Walker, and Stephen King, among many others.

### **Sublime Darkness: Gothic Literature and High Romanticism (1130)**

1st or 2nd semester; 3 credits

This course explores the cultural context of the Romantic Movement and attempts to identify the core elements of Romanticism by examining the relationship between Gothic fiction and the poetry of its canonical poets, such as Coleridge, Shelley, Wordsworth, and Scott. The efforts of contemporary scholars have provided new insights into the ideological complexities and social function of this intriguing literary genre. Because the Gothic explores what lies beyond Enlightenment attitudes toward reason, literacy, superstition, sensuality, crime, punishment, tyranny, marriage, social class, and nationhood, it provides writers of this period with a means of pushing the boundaries of what is known and what can be known. It asks whether we can separate pain from pleasure, sex from violence, justice from corruption, and punishment from tyranny. Furthermore, we examine works of visual art from this period in connection to our reading.

### **Frontier Literature and American Identity (1140)**

1st semester; 3 credits

This course examines the role of the American frontier in the formation of a distinct American mythology and identity. By looking at a variety of media, focusing especially on literature from the late 19th-century through the present day, we examine the way mythology, and specifically the mythology associated with the American frontier, "symbolizes...

society's ideology and dramatizes its moral consciousness" (Slotkin, 1992). The class is a seminar course that uses daily discussion of the material covered to help students arrive at a more nuanced understanding of the collective narratives (with attendant symbols and linguistic commonplaces) formed through American experience with shrinking frontiers.

### **Global Literature (1150)**

1st semester; 3 credits

This course explores contemporary global fiction writing in English and English translation. What literary conversations exist beyond Western tradition? We explore the imaginations of writers who are not only innovative but also push the boundaries between their home cultures and the global village. The literature asks students to explore the power of the literary imagination as we consider how people make sense of their world. The course supports the mission of creating cross-cultural dialogues. Students will have the opportunity to do independent reading projects.

### **Literature and Detective Fiction (1190)**

1st or 2nd semester; 3 credits

Detective fiction has become one of the most popular types of genre fiction today. It originated in America in the early 19th-century as a fairly literary genre, with Edgar Allan Poe as its founding father. Emphasizing the hard-boiled and noir fiction that flourished between the Jazz Age and the Cold War, as well as the police procedural and the true crime novel, this course examines a number of detective narratives in an attempt to answer the following questions: What is the appeal of detective fiction? How has it developed as a genre over the past 150-plus years? What are the limitations and potentials of the detective genre? What can a study of detective fiction reveal about sociocultural anxieties, gender relations, interactions of fiction, and reality and epistemology? We read detective novels and short stories as complex, pleasurable narratives that seem to bespeak America's anxiety over personal safety and security in a free society.

### **Literature of the American Wild (1210)**

2nd semester; 3 credits

This course focuses on analyzing how nature and environmental issues have been represented in literary narratives. Students will analyze texts that illustrate environmental

concerns and examine the various ways literature treats the subject of nature to develop a deeper understanding of how they shape our attitudes toward the environment. These texts depict varying senses of what the world around us is, how it works, why it is the way it is, and what all that means for us as human beings. The readings, discussions, and writing assignments will help students develop the analytical skills appropriate to interpreting literary texts, formulating and sustaining critical arguments in writing, understanding the stakes of specific attitudes toward the natural world, and understanding how environmental issues are linked to other social and cultural concerns.

### **Race and Subjectivity in Literature (1350)**

2nd semester; 3 credits

This is a course for people of all backgrounds to think about and discuss structures of race. Our ability to understand issues of race, our own story and role in race relations, and our own ability to participate in constructive dialogue and healing is constrained and limited by the belief systems we have inherited and embody, often unconsciously. We all possess implicit bias, and it colors our perceptions of everything we encounter. Importantly one of these is the way we perceive the issue and realities of race in our world. Even when challenged, these belief systems often hold fast stubbornly and prevent us from understanding ourselves and others fully, as well as prevent us from understanding the consequences of systemic oppression on individuals, our social fabric, and our cultural, economic, political, and educational institutions. Students in this course develop tools of self-compassion and loving kindness that can help us live with and heal from the hurts and the trauma that systemic oppression has caused.

### **Literature of World Religions (1410)**

1st semester; 3 credits

Even in a supposedly secular scientific age, religions remain a dominant force in most societies. Faith traditions obviously address some deep human needs. While they vary in their theologies, rituals, and commandments, religions endure and address the same profoundly human questions: What is ultimate reality? What are the fundamentals of human nature? Does life have a purpose? Why is evil so prevalent and so powerful? How can

humans achieve wholeness and wisdom? By comparing the answers that religions offer to these questions, we may find clues to understanding both our neighbors and ourselves.

### **Literature and Philosophy (1420)**

1st or 2nd semester; 3 credits

This course pairs philosophy—the concepts of knowledge, truth, personal identity, ethics, existentialism, fate, determinism, and free will—with literature. After an introduction to a philosophical concept, students examine a work of literature using philosophical theories to guide the discussion. Students determine if characters make decisions based upon knowledge or a belief, if they apply and maintain a consistent ethical standard, if personal identity is a product of the mind or the body, and if existence is fated or fashioned by free will. In both the philosophy and literature, readings range from the classics to contemporary selections and probe current cultural epistemology or whose voice carries the weight of “one who knows” and whose does not.

### **Multicultural Literature: Survey of Modern Poetry (1530)**

1st semester; 3 credits

This course is designed as a survey of poetry from the 1980s to present day. Students learn how to think critically about complex social issues by examining the lyrical style of contemporary poets. Students focus on meter, rhyme scheme—end rhyme, slant rhyme, and internal rhyme—and the effect of line breaks and exaggerated stress patterns. By concurrently analyzing traditional poetic canon, students are able to make connections between the two styles of writing by familiarizing themselves with myriad poetic devices. Students write original poems, as well as complete an independent project that focuses on an individual poet's writing style, and analyze the effect of their poetry on contemporary society.

### **Social Class in Literature: Class on Class (1555)**

2nd semester; 3 credits

Social Class in Literature explores elements of the expansive issue of socioeconomic class in 20th- and 21st-century America. Although it lies at the heart of the American Dream and our reputation as the “Land of Opportunity,” socioeconomic status too

often goes unexamined. Yet the questions it raises remain central to the American identity and vital to our unfolding story. Through critical analysis and personal reflection, the course delves into that narrative and seeks to heighten awareness of how socioeconomic status affects individual and collective identities, perceptions, interactions, experiences, and outcomes. In examining how writers have addressed these issues over the years, students read a variety of literary and critical pieces and consider other artistic mediums such as plays, films, songs, and television shows. As part of the organic and collaborative nature of the course, students teach a topic of their choosing, and there is often a service-learning opportunity.

### **Women's Literature (1620)**

1st semester; 3 credits

This course focuses on writings by women in a wide variety of literary genres, including poetry, fiction, and essays. Though most materials are contemporary American, students also sample a wide range of women's writings from a variety of cultures and historical periods. Students have the opportunity to choose from a selection of reading materials by modern and contemporary writers such as Virginia Woolf, bell hooks, Roxane Gay, Lindy West, and Chimamanda Ngozi Adichie. Written work may include journals, creative writings, analytical essays, biographies, and interviews.

### **Creative Writing (1710)**

1st semester; 3 credits

This course experiments with different techniques for writing poetry and short fiction. Students have two tools at their disposal: the workshop format for class meetings and sample texts. The workshop format challenges students to produce drafts on deadline while also providing constructive critiques of peer work. Students thereby improve their own writing by continuously playing the role of both author and editor. The class also reads a brief but focused list of sample texts. Attention shifts away from interpretation toward identifying writing techniques that we can incorporate into our own work. Depending on student interest, we may expand the course to include one of the following: screenwriting, playwriting, or personal essay (creative nonfiction).

### **Nature and Uses of Language (1720)**

1st semester; 3 credits

This course engages students in close reading, class discussion, and written analysis of American linguistics and semantics. The course examines the interaction of language and cultural change, and students read critically to decode the larger meaning of language within its cultural and social context. Students study the logical aspects of language, such as sense, reference, implication, and logical form; semantics, such as word meanings and word relations; and the cognitive structure of meaning. Students read selected works, both fiction and narrative nonfiction, to arrive at a deeper understanding of American linguistics and semantics and how language is used to create meaning and identity.

### **Advanced Tutorials in English (1910)**

1st or 2nd semester; 3 credits

Permission from instructor and approval by the Head of Upper School and the English Department Chair are required.

Semester-long graded tutorials are available to advanced Upper School students. Topics are to be jointly proposed in writing by the student and instructor.

## **ADDITIONAL PASS/FAIL COURSES**

Permission from instructor and approval by the Head of Upper School and the English Department Chair are required.

### **Writing Tutorial (1950)**

1st or 2nd semester; 3 credits (Pass/Fail)

Students interested in this studio course must submit a written proposal specifying the particular kind of writing in which they are interested and the length and number of works they attempt to complete during the semester.

### **Reading Tutorial (1960)**

1st or 2nd semester; 3 credits (Pass/Fail)

Students interested in this studio course must submit a written proposal explaining the rationale of the tutorial and specifying the particular titles they are interested in reading during the semester.

## **NOT OFFERED IN 2025-2026**

Coming of Age in America (1160)

Literature of Cosmic Horror and the Supernatural (1170)

Literature of Human Rights in the U.S. (1330)

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## Fine Arts

*Arts education at Greenhill School is based upon the conviction that aesthetic curiosity, self-discipline, and internal motivation are fundamental to learning. We believe that the arts are multidimensional and teach important life skills through art skills.*

*Fine Arts at Greenhill provide students with an opportunity to celebrate their uniqueness and to strive for opportunities for collaboration.*

*Some visual art classes incorporate science, while plays written and produced by students often deal with important social issues. Likewise, video projects address social issues and concerns that confront young people.*

*While many students at Greenhill seize the opportunity to focus on a specific artistic discipline, many continue to explore and enjoy the broad and diverse arts offerings available.*

*Some Fine Arts courses are offered for credit during Summer on the Hill. Most students at Greenhill graduate with more than the minimum requirements. Fine Arts courses are offered at both the beginning and advanced levels, and all classes are graded.*

### STUDIO ARTS

#### **Design of Immersive & Interactive Art (6005 FA or 9610 DI)**

Full year; 6 credits

Students may enroll in this course for either Design & Innovation or Fine Arts credit.

In partnership with the department of visual arts and department of innovation, instructors will lead students through a course where they will explore and develop interactive art. Design of Immersive & Interactive Art students will learn how to integrate art with technology to design and create unique experiences. These experiences may be embodied in an immersive 2D/3D art installation, robotics, games, or augmented performances using a variety of media and materials. Students' culminating piece will be a fully functioning and installed piece of art. Patrons don't just look at the visual aesthetic but are able to interact with the art. The work that is developed

should recognize the presence of an individual, understand at least at a basic level their engagement with the piece, and must respond intentionally and intelligently to the patron.

#### **Digital Art (6090)**

2nd semester; 3 credits

Digital Art is an exciting and creative class designed to introduce the innovative world of digital media and graphic design. In this semester-long course, students gain a comprehensive introduction to the latest in digital art techniques, utilizing various software programs such as Adobe Photoshop and Adobe Illustrator. Instead of paints and pencils, students will use their own photography or found images for digital manipulation and drawing! They'll become familiar with concepts around visual communication, learn about elements and principles of design, and have opportunities to animate their creations—all while establishing their foundation in digital art. For those of you wondering if this could be the perfect class for you—if you're interested in creating beautiful art from a different perspective or eager to see what graphic design has to offer—the answer is yes! Come explore and get ready for lots of fun!

#### **Drawing I (6010)**

1st or 2nd semester; 3 credits

This is an introductory course that gives students a foundation in both technical and conceptual subject matter. Instruction is given on skill building, understanding vocabulary as it relates to drawing, and experimentation of materials through creative problem-solving. Sketchbook assignments will be used to reinforce skills and concepts as students navigate class assignments. Observational and conceptual assignments with various surfaces, techniques, and mediums will be explored. Learning how to create visual narratives is a component of the course so students can begin to find their voice as an artist.

#### **Drawing II (6060)**

1st or 2nd semester; 3 credits

Prerequisite: Drawing I or Instructor approval

This course continues to focus on honing both technical and conceptual drawing skills. Students continue their investigation of space, image, and form as they relate to still life, figurative, and conceptual studies, and have the

opportunity to explore various surfaces and media to aid them in communicating content. A final work/series is the focus for the second half of the semester. Students interested in building their portfolio in preparation for an AP course and/or students who really enjoy the drawing process may repeat this course.

#### **Painting I (6030)**

1st or 2nd semester; 3 credits

This course gives students a strong foundation of painting concepts and techniques that allow for experimentation and exploration of materials and painting media, painting methodology, brush techniques, and basic color theory. Students can explore water-based mediums, oils, and mixed media while working on observational and conceptual assignments. A brief background in art history that includes important movements and artists will proceed experimentation and exploration of media for assignments. Learning how to create strong visual narratives is a component of this course so students can begin to find their artistic voice.

#### **Painting II (6070)**

1st or 2nd semester; 3 credits

Prerequisite: Painting I or Instructor approval

This course continues the foundational skills and concepts explored in Painting I while helping students find their artistic voice. Students will have the chance to explore water and oil-based mediums, printmaking, experimental painting, and mixed media works while exploring both traditional and non-traditional surfaces. This course may be repeated for credit.

#### **Design I (6050)**

1st semester; 3 credits

This course explores the basic elements of design including line, color, shape, form, value, space, and texture in connection with both abstract and applied design. Students will gain knowledge and experience working with concepts of positive/negative form, typography, size and scale, repetition, symmetry, and basic color theory, before moving into more applied design assignments. These may include logo design, posters, and signage. Students have the option to work in both hand rendered and digital art collage for assignments.

## Design II (6080)

1st semester; 3 credits

Prerequisite: Design I or Instructor approval

This course continues to explore the basic elements of design in fine art and print design. Students will use the skills and knowledge gained in Design I and use creative problem-solving while focusing on prompt-based assignments. For the second half of the semester, students will create a sequential series or final large work for exhibition, which could include book art, installation art, mixed media, digital art, or printmaking.

## Honors 2D Art and Design (6085)

Full year; 6 credits

Prerequisite: 3 semesters of Drawing, Painting, or Design, and Instructor approval

Honors 2D Art and Design provides an advanced exploration of 2D art as a medium for personal expression. Students will develop a comprehensive portfolio of eight major works, guided by an issue-based artist's statement that defines their creative vision and thematic focus. The course integrates a variety of traditional and contemporary 2D techniques, including drawing, painting, mixed media, and digital design, emphasizing both craftsmanship and conceptual development. Students will create exhibition-quality work while engaging in critiques, written reflections, and peer collaboration to refine their artistic style and voice. They will research and explore historical and contemporary artists and artistic movements and the relation to their unique voice. The course encourages participation in school and community exhibitions, contests, and online showcases. Students will also prepare their portfolios for submission to art schools or professional opportunities, fostering a strong foundation for future creative endeavors.

## Ceramics I (6210)

1st semester; 3 credits

This is an introductory course to explore ceramic processes involved with pottery and sculpture. This class will introduce students to building with clay based on contemporary and historical influences. Emphasis will be placed on the elements and principles of design, such as line, shape, texture, and color. Students will start with hand-building techniques and pinch, coil, and slabs and then be introduced to the craft of wheel-thrown pottery. Students will be able to work with clay

through all its states, from wet clay to finished fired ceramics.

## Ceramics II (6260)

1st semester; 3 credits

Prerequisite: Ceramics I

Students continue to advance their hand-building and/or wheel-throwing skills. This course is designed for students with previous clay experience. Assignments will be given at the beginning of the semester, working toward independent projects based on the student's skill level, interest, and instructor approval. Students will develop their own style of working and experiment with advanced wheel/hand-building and glazing techniques.

## Sculpture I (6220)

2nd semester; 3 credits

Students learn sculpting skills, including the forming methods: additive, subtractive, fabrication, casting, and found object. Work is created in the round, and presentation of sculpture is addressed. Students work on assignments with paper, cardboard, wood, clay, glass, wax, and found objects.

## Sculpture II (6230)

2nd semester; 3 credits

Prerequisite: Sculpture I

Assignments will be given at the beginning of the semester, working toward independent projects based on the student's skill level, interest, and instructor approval. Students work on assignments with paper, cardboard, wood, clay, glass, wax, and found objects. Students are encouraged to begin to find their voices sculpturally.

## Honors 3D Art (6295)

Full year; 6 credits

Prerequisite: Ceramics I, Ceramics II, and Sculpture I, or Sculpture I, Sculpture II, and Ceramics I. Instructor approval is necessary.

Honors 3D art is an advanced course that builds on the foundational skills learned in previous ceramics and sculpture courses. Throughout the course, students work independently to create eight major works of art using a specific set of materials based on independently established artists' statements. As they work, students will refine their skills while developing their own ideas and themes. Over the course, we will use the critique process for self-improvement and explore the relationship between expression and personal style. The yearlong course is divided into

two sections. Students will focus on working with clay during the first semester, while the second semester will cover various sculptural media. At the end of the year, students will submit a final portfolio showcasing their highest levels of craftsmanship and personal voice.

## Photography I (6110)

1st or 2nd semester; 3 credits

Class size is limited to 13 students.

Camera provided by Greenhill Technology Department  
There is a fee for class-related supplies.

This is a beginning-level course for the novice photographer and is a hybrid of analog and digital darkrooms. A series of projects introduces students to a basic understanding of Adobe Photoshop, the generation of digital negatives for darkroom and experimental process use, DSLR camera capabilities, and how to utilize good composition, form, and light. Students learn how to photograph using manual settings, and how to improve their visual perception through individual assignments. Color theory, color correction, and studio lighting are also introduced. Weekly critiques are conducted to enforce syntax and process learning. Selected prints are matted for display, student exhibitions, and local/national contests.

## Photography II (6120)

1st or 2nd semester; 3 credits

Class size is limited to 15 students.

Prerequisite: Photography I

Camera provided by Greenhill Technology Department  
There is a fee for class-related supplies.

Photography II is an exploration of the photographic medium with an emphasis on creative problem solving. Students will have full access to the analog and digital darkrooms and are encouraged to integrate the technologies to further their understanding of the medium. History of Photography, prompts, and the issues-based photographic projects are explored throughout the course. Students learn the process of writing and supporting an artist statement that prepares them for future classes. This course may be repeated for credit.

## Chemistry of Photography (6140 FA or 5340 SCI)

1st semester; 3 credits

There is a fee for class-related supplies.

This course allows students to explore the interconnectedness of a fine arts discipline (photography) and a science discipline

(chemistry). Students simultaneously explore several photographic techniques and the chemical explanations behind those techniques. Students who have completed this course are able to reflect and speak on the artistic meaning of their images and explain, on a chemical level, the processes and techniques used to achieve the final works of art. Experiments and imagery are produced with black-and-white developer techniques, toning techniques, Sabattier effects, and 19th-century printing techniques. A final portfolio is produced along with a final project assessed on artistic and chemical understanding.

### Honors Photography (6150)

Full year; 6 credits

Prerequisites: Photography I and II and either another semester of Photography II OR Chemistry of Photography OR Abstract & Experimental Photography. Instructor approval is necessary. There is a fee for class-related supplies.

Honors Photography is an exploration of issues surrounding the pursuit of photography as a medium of personal and identity expression. Students are responsible for writing an artist statement (thesis) and supporting the proposal with an exhibition quality portfolio (a custom printed book), and an online account detailing the process of artistic intent. An abundance of 19th - 21st century technologies are utilized and integrated. Alternative aspects of book art and collaborative work is highly encouraged. Students will collaborate with campus-wide projects and prepare their work for submission to student exhibitions, contests, publications, professional gallery, and online opportunities. Application to the YoungArts Competition is required. Students must apply for approval to be included in Honors Photography.

### Video Production (6510)

1st or 2nd semester; 3 credits  
Class size limited to 20 students.

This course can be many things. We work in small groups to produce several short films in a semester. For the Middle School student who worked in a large group, this class allows you to be much more in charge of learning all aspects of film preproduction, production, and postproduction. For the film fan, this class gets your feet wet with a greater appreciation of the art form. For the driven young filmmaker, this class starts to shape your skills and voice and fulfills the requirement for the Advanced Video Production (AVP) classes. No matter your motivation, this class is a

space to watch, dissect, evaluate, and produce films. Prompts change from project to project and class to class, including animation projects. Students can take Video Production a total of two times in Upper School. Students can take Video Production: SOTH all four summers for credit.

### Advanced Video Production (6560)

Full Year; 6 credits

Class size limited to 20 students.

Prerequisite: US Video Production and Instructor approval

Advanced Video Production (AVP) is a year-long class for the student who wants a more rigorous class of filmmaking. AVP students work in small, tight-knit groups to make high-quality short films. Class time is used for watching, discussing, and evaluating films, pitching stories in small and large groups, and preproduction and postproduction of shorts, field trips, and visiting artists. AVP films have been shown all over the state, nation, and world. AVP is a rigorous class and a strong family of makers.

### Woodworking I (6240)

1st or 2nd semester; 3 credits

Class size limited to 8 students

Woodworking I is an introductory course designed for students interested in exploring woodworking techniques and materials. Focused on developing craft skills, artistic creativity, and understanding form and function, students will learn about wood types, milling, joinery, and finishing. The course uniquely combines 3D art and carpentry in a studio-based environment. Through a series of projects, students will apply both hand and machine techniques to produce works that blend aesthetics with utility. The semester culminates in a gallery showing their creations, showcasing their journey in the art of woodworking. This course is perfect for those looking to begin their journey in woodworking or to expand their artistic skills.

### Jewelry Design and Fabrication (6245)

1st or 2nd semester; 3 credits

Class size limited to 12 students

Practice the art of jewelry design and fabrication through the exploration of techniques and mediums from across the globe. This hands-on course is designed for upper school students and focuses on research, design, and fabrication of wearable

art jewelry. Through the exploration of various skills and mediums, such as metalsmithing, hand-building, and bead weaving, students will discover and express their artistic voice. Students will engage in critiques, collaborative projects, and reflective practices to refine their skills and artistic voice. Open to all levels, the class offers opportunities for beginners and advanced learners to grow and can be repeated as skills and projects build off prior knowledge. Students are encouraged to showcase their work in school exhibitions and contests.

### Tutorial in Advanced Studio Art (6910)

1st or 2nd semester; 3 credits

Prerequisite: Students must have taken a beginning visual art course for a tutorial; permission from instructor and approval by the Head of Upper School and the Fine Arts Director are required.

One-semester tutorials are available to advanced art students. Topics are to be jointly proposed in writing by the student and instructor.

## THEATER

### Technical Theater I (6320)

1st or 2nd semester; 3 credits

Class size is limited to 12 students

A hands-on course based on the process and techniques used in creating and manipulating scenery, properties, costumes, light, and sound to enhance a theatrical event. Workshop demonstrations and hands-on experience are featured and offer the student a project-based learning environment. This class can be repeated and tailored to the individual concentration and skill level of each student.

### Technical Theater II (6325)

1st semester; 3 credits

Prerequisites: Technical Theater I

Class size is limited to 12 students

Technical Theater II is an advanced course tailored for students with prior experience in technical theater. This course provides an opportunity to delve deeper into specialized areas such as scenic painting, lighting, projection work, props design and fabrication, sound, and scenic construction. Students will have the flexibility to focus on their area of interest, enhancing their skills through hands-on workshops, demonstrations, and individual projects. A significant course component involves contributing to the semester's

production, offering practical experience in a real-world setting. Assessments are project-based, emphasizing student commitment, engagement, and skill development. This course bridges the gap for students interested in advanced technical theater but unable to commit to the extensive outside-of-school time required by other technical practicum courses.

### **Acting I (6330)**

1st or 2nd semester; 3 credits

This engaging course is for the beginning actor or those with acting experience solely in Middle School. The class focuses on developing the actor's confidence and performance skill set in a low-risk, high-success environment with theater games, exercises, vocal work, stage combat, and character and script analysis. Over the semester, students are introduced to preparation techniques and fundamental performance skills. Students develop and present monologue audition pieces and scenes that challenge them to create lively, exciting characters. This course culminates in a final showcase of work.

### **Acting II (6335)**

2nd semester; 3 credits

Prerequisite: Acting I or Instructor approval. This course may not be offered every year.

This advanced course is for the more experienced actor and is strongly recommended for the student who may be exploring an acting or film focus in college. The course concentrates on scene work in different acting styles for the stage and screen. Actors analyze scripts, develop movement and characters, and increase their improvisational acting skills. Works include texts written for the stage, film, and television. Scene work is often video recorded for review and critique. This course culminates in a final showcase to be presented to an invited audience.

### **Introduction to Writing for Stage and Film (6360)**

1st semester; 3 credits

This course is designed to help all aspiring playwrights and screenwriters dive into the world of theatrical and cinematic storytelling! Students will learn practical writing techniques, the use of physical space in their writing, build believable and dynamic characters through dialogue, and develop plot structure with an emphasis on action and conflict. Students will have the opportunity to put what they've learned into practice right away, with

assignments that range from short playwriting all the way up to a ten-minute play and a screenplay suitable for video production. When it's all over, we'll cap things off with readings of each student's work for real-life feedback in an intimate setting.

### **Improv Comedy: Finding Your Funny (6340)**

1st or 2nd semester; 3 credits

Learn how to unlock your authentic comedic voice on stage! In this semester-long course, students will focus on finding the fun, being spontaneous, and making big choices! In the first quarter, students will collaborate with their classmates to tell stories on their feet, support each other's ideas, and find their own truth in comedy based on their experiences and perspectives. In the second quarter, students will work together to create improvised scenes and comedic characters with strong points of view and absurd behaviors with a focus on what it takes to create an improvised show of short form games and longer formats. This class will culminate in a short form improv performance for a small audience.

*Students can take Improv Comedy a total of two times in Upper School but not in consecutive semesters.*

### **Tutorials in Advanced Drama (6930)**

1st or 2nd semester; 3 credits

Prerequisite: Acting I or Theater Appreciation or permission from instructor and approval by the Head of Upper School and the Theater Director

Tutorials are available to advanced drama students. Topics are to be jointly proposed in writing by the student and instructor.

## **THEATER PRODUCTIONS**

### **Theater: Musical Production (6450 FA or 8560 PE)**

1st Semester; 3 credits (FA = Graded; PE = Pass/Fail)

Class of 2028 and 2029: a Prerequisite of one of the following courses: Acting I, Improv Comedy, Choir, Dance, or Theater Appreciation. A prerequisite can be taken concurrently with this class. Students may enroll in this course for either Fine Arts or Physical Education credit.

This course is designed for the student whose interests lie in musical theater performance. Every student is part of the ensemble, attends rehearsals, and learns dances and songs in the production. Students also develop exciting characters suitable for the production with an emphasis on character development, technical proficiency (correct posture, alignment, breath), and performance quality (focus, style, and musicality). Auditions generally take place during the first week of the first semester.

This course culminates in a performance weekend where students are showcased to the Greenhill community and beyond.

### **Theater: Technical Practicum (6460)**

1st or 2nd semester; 3 credits

Prerequisite: Technical Theater I

Tech Crew assists in the creation of sets, props, costumes, light, and sound throughout the term during the production cycle of theater and dance performances. Stage managers and assistant stage managers are also selected from the crew. During performances, Tech Crew members are responsible for running lights, sound, special effects, stage managing, facilitating costume changes, and moving set pieces and props. This rewarding yet time-intensive course culminates in producing all technical elements for an audience either in the Studio Theater or Rose Hall. As an advanced theater course, there are out-of-class expectations and commitments.

### **Theater: Play Production (6470)**

2nd semester; 3 credits

Class of 2028 and 2029: a Prerequisite of one of the following courses, Acting I, Improv Comedy, Choir, Dance, or Theater Appreciation. A prerequisite can be taken concurrently with this class.

This course is designed for students interested in developing and showcasing their performance skills performing in a non-musical theater production. Every student is part of the performing ensemble, attending rehearsals, learning lines and blocking, and creating lively, exciting characters. Auditions generally take place during the first week of the second semester. This course culminates in a performance weekend for the Greenhill community and beyond.

### **Advanced Acting and Performance (6490)**

2nd semester; 3 credits

Prerequisite: For Grades 11 & 12 only; Acting I (6330) and Acting II (6335) OR 2 Production classes, Musical (6450) or Play Production (6470)

Advanced Acting and Performance challenges experienced actors to refine their skills and explore the art of performance through the study of a significant playwright, unifying theme or style. Students will engage in rigorous text analysis, character development, and ensemble-based rehearsals to create compelling and authentic performances. The course also provides opportunities for students to explore leadership within the creative process, fostering skills that could support roles as student directors or collaborative leaders. The course culminates in a showcase

or full production, highlighting the ensemble's creativity and growth. Open to Juniors and Seniors only with prior acting experience, it prepares participants for advanced theatrical opportunities in school and beyond.

## **SPEECH AND DEBATE**

### **Introduction to Debate I (6710)**

1st semester; 3 credits

Introduction to Debate I is a one semester entry level course for students who are new to Greenhill School, have limited Middle School debating experience, or have never debated before. This course surveys the formats of Lincoln Douglas Debate, Policy Debate, and World Schools Debate over the semester. You will have the opportunity to practice each type of debate in class and are highly encouraged to sign up for, and compete in, at least one tournament. Students learn portable skills such as best practices in public speaking and critical thinking; learning to develop, defend, and respond to well-reasoned arguments; enhanced research skills; and collaboration and teamwork. Together these skills build a foundation for effective argumentation and advocacy, vital skills needed in an everchanging world. Most students in this class are 9th graders, but any student who chooses to explore Debate could enroll in the class. Students interested in pursuing debate should sign up for both Introduction to Debate I and Introduction to Debate II in the 2nd semester.

### **Introduction to Debate II (6715)**

2nd semester; 3 credits

Prerequisite: Introduction to Debate I or Instructor approval

Introduction to Debate II is a one semester course for students who are interested in debate. This course introduces new concepts across the three formats Greenhill Debate competes in: Lincoln Douglas Debate, Policy Debate, and World Schools Debate. Students will have the opportunity to practice each type of debate in class and are highly encouraged to sign up for, and compete in, at least one tournament. The curriculum in Introduction to Debate II builds heavily on the concepts learned in Introduction to Debate I. Most students in this class are 9th graders, but any student who chooses to explore Debate could enroll in the class. Students interested in pursuing debate should sign up for

both Introduction to Debate I and Introduction to Debate II in the 2nd semester.

### **Intermediate: Policy Debate (6745)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course builds upon the principles of Introduction to Debate by emphasizing the research component of argumentation, building on skills such as effective argument writing, and enhancing the most effective delivery techniques to persuade audiences and judges in interscholastic competitions on the policy debate resolution.

Sophomores typically take this course after taking Introduction to Debate, but any student with the written permission of the Director of Debate may take this course. Students in Intermediate: Policy Debate must attend a minimum of three interscholastic competitions per semester.

### **Intermediate: World Schools Debate (6755)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course builds upon the principles of World Schools Debate by emphasizing the component of argumentation and delivery, in addition to building on skills such as effective writing of arguments and enhancing the most effective delivery techniques to persuade audiences and judges in interscholastic competitions. This course is designed for students with some World Schools experience but needs additional content and skill-based support to maximize their chances of success. Students in Intermediate: World Schools Debate must attend a minimum of three interscholastic competitions per semester.

### **Intermediate: Lincoln Douglas Debate (6775)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course builds upon the principles of Introduction to Debate by emphasizing the research component of argumentation, in addition to building on skills such as effective writing of arguments and enhancing the most effective delivery techniques to persuade audiences and judges in interscholastic competitions utilized throughout that school year.

Sophomores typically take this course after taking Introduction to Debate, but any student with the written permission of the Director of Debate may take this course. Students in

Intermediate: Lincoln Douglas Debate must attend a minimum of three interscholastic competitions per semester.

### **Advanced Debate: Policy (6740)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course, intended for students active in interscholastic competition, covers advanced concepts in policy debate. Each year, the course material changes to correspond to the National High School Debate Resolution. This course may be repeated for credit. The minimum participation requirement for successful completion of this course is four tournaments per semester.

### **Advanced Debate: World Schools (6750)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course examines the practice of contemporary World Schools Debate by engaging in a study of the topics related to many of the major societal issues of the day. The course introduces students to argumentation, persuasion theory, research, and strategy necessary to participate in interscholastic debate. The course may be repeated for credit. The minimum participation requirement for successful completion of this course is four tournaments per semester. Students of all grade levels may take this course with the approval of the Director of Debate.

### **Advanced Debate: Lincoln Douglas (6770)**

1st or 2nd semester; 3 credits

Prerequisite: Director of Debate approval

This course is intended for students active in competing at high levels of debate—it will cover advanced concepts in Lincoln Douglas debate, including moral and political philosophy, critical theory, public policy, and content knowledge relating to the five Lincoln-Douglas topics that are debated each school year. The course may be repeated for credit. The minimum participation requirement for successful completion of this course is four tournaments per semester.

### **Tutorial in Advanced Forensics (6940)**

1st or 2nd semester; 3 credits

Permission from instructor and approval by the Head of Upper School and the Director of Debate is required.

One-semester tutorials are available to advanced debate and forensic students in the Upper School. Topics are to be jointly proposed in writing by the student and instructor.

## MUSIC

### Greenhill Singers (6410)

Full year; 6 credits

This course is an intermediate music course. It is a non-auditioned course, and all are welcome. Singers perform an eclectic array of choral repertoire spanning many styles, periods, and traditions. It covers basic and advanced principles of musicianship, theory, vocal technique, performance, and professionalism practices. Singers perform at various functions and concerts throughout the year. Students have the opportunity to compete in individual and interscholastic contests, such as all-region choir and all-state choir.

### Songwriting (6415)

2nd semester; 3 credits

Students of all music experience levels will find challenges and rewards in this unique course. Those enrolled in Songwriting will be immersed in a unique and exciting learning experience. Combining lectures with workshop classes, students will explore the many components of song, such as lyrics, melody, delivery, harmony, rhythm, form, texture, and timbre. They will learn to use these elements to compose and record original material and gain insight into the music industry by attending live concerts and reviewing performances. This is an introduction to songwriting that broadens creativity and understanding of the art of songwriting.

### Greenhill Concert Band (6430)

Full year; 6 credits

The Greenhill Concert Band is a full instrumentation band that performs a variety of music throughout the school year. This non-auditioned ensemble focuses on musicianship and ensemble playing. Students have the opportunity to participate in ATSSB and TPSMEA contests, such as all-region, all-state, and solo and ensemble contests. Members of the Greenhill Concert Band fill various ensembles such as the Greenhill Drumline, Jazz Band, Jazz Combo, Pep Band, and chamber groups.

### Greenhill Chamber Orchestra (6420)

Full year; 6 credits

Prerequisite: Audition/approval from Instructor

The Greenhill Chamber Orchestra rehearses music from a wide range of styles with special emphasis on standard repertoire for orchestra. In addition, students are placed in trios or quartets to pursue chamber music,

which forms a vital part of the curriculum.

Students are expected to progress in skill and musicianship through their participation. Daily practice is expected. Private lessons are not required but are highly encouraged. Participation is by audition and is open to students of intermediate to advanced ability.

### Tutorial in Advanced Music (6950)

1st or 2nd semester; 3 credits

Permission from instructor and approval by the Head of Upper School and the Department Head is required.

One-semester tutorials are available to advanced music students. Topics are to be jointly proposed in writing by the student and instructor.

## DANCE

### Beginning and Intermediate Dance (6435 FA or 8565 PE)

1st or 2nd semester; 3 credits (FA = Graded; PE = Pass/Fail)

Credit can be received for either Fine Arts or Physical Education and may change enrollment each semester depending on credit needs.

Step into the world of dance with Beginning & Intermediate Dance, a dynamic and immersive course that explores the fundamentals of ballet, modern, and jazz techniques. This class is designed to inspire creativity and build confidence as students develop strength, flexibility, and stamina through engaging and high-energy movement sessions. Through focused practice and collaborative choreography, students will refine their performance quality, discover stylistic differences between dance genres, and express their unique artistic voice. Whether you are new to dance or looking to advance your skills, this course fosters perseverance, teamwork, and self-expression in a supportive and fun environment. Aligned with the Fine Arts Department's mission to celebrate the creative process, this class prepares students for more advanced opportunities, including auditions for the Greenhill Dance Company. Open to all skill levels, it fulfills either Fine Arts or PE credit and encourages every student to explore their potential as a performer.

### Greenhill Dance Company (6440 FA or 8570 PE)

1st or 2nd semester; 3 credits

(FA = Graded; PE = Pass/Fail)

Prerequisite: Instructor Approval

Students are encouraged to enroll in this course as a full-year member but may enroll in a single semester. Credit can be received for either Fine Arts or Physical Education and may change enrollment each semester depending on credit needs.

This is the Greenhill dance performance

group. This course is designed for the dance student whose interests lie in dance technique and performance. Emphasis is placed on technical proficiency, performance quality, and working as a vital member of the company. Students perform advanced movement sequences, participate in improvisation experiences, learn choreography, and engage in class discussions and peer-to-peer critique sessions. For those who are interested, students also have the opportunity to choreograph. Company members also engage in various aspects of production and promotion for dance performances, including the ISAS Fine Arts Festival.

### Dance for Athletes (6455)

2nd semester; 3 credits

This Fine Arts class is a fantastic way to enhance your athletic performance. Designed for athletes who want to enhance their athletic and physical performance through techniques used in dance, the class will focus on agility, flexibility, balance, and endurance so you can perform at your best physically. No experience required—this beginner's program will help students improve movement skills needed when performing the demanding tasks required in sports and fitness, with a bonus: it is fun, too. Athletes should plan by wearing loose-fitting clothing. A large portion of the class will be devoted to stretching and conditioning, emphasizing proper placement and technique within a dance class structure. No public performance is required.

## PUBLICATIONS

### Montage Literary Magazine: Publication Creation (6670)

2nd semester; 3 credits

This course takes you through the process by which a literary magazine gets made. The class compiles and transforms written and visual art submissions into a publication that primarily examines and showcases the relationship between aesthetics and rhetoric. Students learn what it takes to create a compelling and powerful presence on a printed page that includes compositional considerations, color, and typography. The course also includes design theory, basic layout, and technical Adobe InDesign and Adobe Photoshop skills.

### **Cavalcade Yearbook (6650)**

Full year; 6 credits

Cavalcade is a full-year course that teaches students about all the essential elements that go into producing a publication from conception to finished product. Students work in teams for each section of the book and create layouts centered on the ideas, graphics, typography, and design that the editor(s) in chief have created and discussed. Areas of concentration include team building, creating an effective theme, writing for publication, the interviewing process, typography and graphic design, effective caption writing, email etiquette, and photography. Instruction of Adobe InDesign and Adobe Photoshop is a huge component of the course, as these programs are used for the layout and design of the publication. Students can apply for future leadership positions at the end of the year. These are decided by the editor(s) after the interviewing process is completed.

### **Introduction to Journalism (6610)**

Full year; 6 credits

This course prepares students to join the staff that produces the school newspaper, *The Evergreen*, and the digital news platform, *Evergreen Online*. Students learn the elements of journalism, focusing on the fundamentals of news gathering and writing. They analyze the structure, sourcing, arrangement of facts, and use of direct quotes in newspaper and magazine stories and learn to write short news stories and more complex articles, including in-depth features, profiles, and sports stories. They also learn the fundamentals of effective page design and how art and text work together to communicate meaning. As students learn how to responsibly inform and represent the Greenhill community, they demonstrate comprehension of the goals and ethics of a campus newspaper and digital news site. They also consider which stories are best suited for print versus online platforms.

### **Advanced Journalism (6640)**

Full year; 6 credits

Prerequisite: Introduction to Journalism and permission from Instructor is required.

This course is designed for students interested in deepening their involvement with the print *Evergreen* or *Evergreen Online* staff. In addition to planning, writing, and editing articles and creating podcasts and video segments, students assume more editorial responsibilities, including story selection, evaluation and feedback, headline and photo caption writing, and participation in staff editorial and policy decisions. They also deepen their knowledge of effective page design and how art and text work together to communicate meaning and then apply that knowledge in their work on the newspaper or digital news platform. Students who serve on the editorial staff must sign up for this course.

### **NOT OFFERED IN 2025-2026**

Theater Appreciation (6310)

Technical Theater: Stage Design (6350)

# History/ Social Science

The Greenhill Upper School history curriculum deepens students' knowledge of history; sparks their curiosity about the world; promotes an understanding of global cultures; encourages students to become active citizens; and develops the research and communication skills that allow students to explore and convey information in sophisticated ways.

The Upper School program is divided into two sections: a core program in 9th and 10th grades in which students learn about global history and the history of the United States, and an 11th–12th grade program in which students are given a wide choice of semester electives. In the 9th and 10th grade courses, students learn first about the history of the world with a focus on non-Western cultures before diving into the history of the United States and its role in the world. The 11th and 12th grade electives encourage students to broaden their understanding of world history, social sciences, global cultures, and pressing international issues. All Upper School students must take a government course and are given two options to satisfy this requirement: *Government in Action* or *AP Government*. The department has also added a special course for seniors who display a passion and aptitude for history. This Senior Seminar course has a different topic and teacher each year, and rising seniors must apply for consideration and acceptance into the class.

Across the program, primary documents, current events, and guest speakers supplement course material and enhance student interest. Research skills are also embedded into the program at every stage. All 9th and 10th graders are required to complete a formal research paper, and these skills are refined and advanced in the various upper-divisional elective courses. After completing the Upper School history program, students are prepared for continued study of history at the university level, as well as a life of thoughtful and engaged citizenship, locally, nationally, and globally.

## History/Social Science Courses

### Yearlong Courses

Global History (4010)

United States History (4020)

AP European History (4640)

### 1st Semester Courses

The Cold War: 1945–1991 (4240)

Understanding September 11 (4270)

Women's History (4280)

Genocide in the Modern World (4310)

Law & Civil Liberties (4325)

Sports and Society (4410)

International Relations (4465)

Military History (4490)

Economics and Society (4610)

### 2nd Semester Courses

Government in Action (4110)

AP Government (4120)

Independent Struggles in the Non-Western World (4210)

History of the Holocaust (4265)

Latin American in the 20th Century (4390)

Modern Middle East (4420)

Military History (4490)

Senior Seminar: Rise of the 20th Century Dictators (4850)

## NINTH GRADE

### Global History (4010)

Full year; 6 credits

This course provides a comprehensive understanding of the dynamics and impacts of revolutions, beginning in roughly 1493, highlighting the diverse motivations and interpretations of those involved in these transformative events. Moving beyond Marxist explanations, we will focus on how revolutionaries understood their actions and contexts. Comparing revolutions like the "Glorious Revolution," the American, French, Haitian, Russian, and Arab Spring,

we will identify common characteristics and shared lessons. Additionally, we will examine social revolutions that reshaped societies through movements for Civil Rights, Gender Equality, LGBTQ advocacy, and broader Social Justice efforts, demonstrating how these revolutions have challenged entrenched power structures and driven societal transformation.

To explore these questions, this year-long course will take students back to the early revolutions of seventeenth-century England and the transformative revolutions in America and France. We will then examine the revolutions of the nineteenth century and move on to the significant revolutions of the twentieth century in Russia, China, Cuba, Cambodia, Iran, and the Arab Spring. Alongside these, the course will investigate the Green Revolution, focusing on Agricultural Innovations, Global Food Production, and Economic Development, to illustrate how technological advancements have revolutionized global societies and economies. Furthermore, we will explore anti-imperialism revolutions, drawing on case studies from Africa, Asia, and Latin America to understand how colonized peoples resisted and overthrew imperial rule.

## TENTH GRADE

### United States History (4020)

Full year; 6 credits

United States History surveys the political, economic, and social history of the United States from the Civil War to the present. The class is a chronological study of the modern U.S., focusing on themes of freedom, power, and the American Dream. *How did the United States rise from a regional backwater to a global superpower? Who does "We the People" include? How have individuals and groups fought for full citizenship and rights? How have race and class impacted the pursuit of life, liberty, and happiness? Is America "exceptional"? How have Americans interacted with their landscape and environment?* These are some of the questions this class seeks to explore. This class ties the study of the past to current events. For example, we trace the legacies of an unfinished Reconstruction to the Civil Rights Movement and then to protests in the news today. Students hone critical thinking, research, and writing skills and complete an independent research paper.

## ELECTIVES

Juniors and seniors are required to take at least two semesters of electives that reflect their interests in history or social science. One semester of electives must be from a government course. Students satisfy their government credit by taking either *Government in Action (4110)* or *AP Government (4120)*. Students may not take both government courses without departmental approval.

### Government in Action (4110)

2nd semester; 3 credits

The ultimate objective of this course is to help students become better-informed citizens regarding the workings of American government and politics. It is a process that begins with an in-depth study of the American political system, from its beginnings under the founding fathers to its current existence. Tracing and analyzing the evolution of the government's role allow students to gain insight into American politics and to assess how the American government has been a constantly evolving entity. Topics of study include the U.S. Constitution, the three branches of the federal government, the electoral process, the ideas and organization of the two major parties, and current issues facing the U.S., both at home and abroad. Analyzing how these topics affect students' lives—from knowing one's legal rights to understanding the importance of suffrage to the value of participating politically—helps make this a hands-on course as well. Students may not take both government courses without departmental approval.

### Advanced Placement Government (4120)

2nd semester; 3 credits

Note: AP Examination in Government is required. Students are encouraged to consider AP Government if they have a) demonstrated proficiency in their previous history courses and b) displayed a real interest in the study of politics and government. A grade of B or better in Global History and U.S. History is required.

The AP Government course is designed to give students a critical perspective on government and politics in the United States. This one-semester course is designed for the highly motivated student who wishes to earn college credit in government by taking the AP test. This survey of our political system examines the constitutional underpinnings of our system of government, how it has evolved over time, and how various actors

and influences shape the making of policy. Primary emphasis is placed on the national government, with special attention given to the interaction between the branches of the federal government and, to a lesser degree, the states. Materials for the course include texts, supplementary readings, current magazines, films, and videos.

### Independence Struggles in the Non-Western World (4210)

2nd semester; 3 credits

The revolution starts now. This course will cover 20th century post-WWII independence struggles across the globe. Students will examine case studies of India and Algeria. Each case also considers regional geography, economics, pre-colonial civilizations, the nature and structure of colonial power, and the challenges that each country faces today. In addition to learning about an important chapter in the history of these countries, students leave the course with an enhanced understanding of the concepts of nationalism, autonomy, revolution and liberation. They then apply these concepts as they conduct research projects on additional independence struggles.

### The Cold War: Global History and Politics from 1945 to 1991 (4240)

1st semester; 3 credits

This course examines the geopolitical, economic, and ideological struggle that materialized in the aftermath of WWII. Two superpowers emerged, and although the largest threat of confrontation came from the Cuban Missile Crisis, the course looks at effects on a global scale as the world became polarized: the Greek Civil War, the Korean War, the Vietnam War, and the Soviet-Afghan War were all products of the larger battle between communism and the capitalist democracies. In addition, conflicts in Angola, El Salvador, and Nicaragua are examined. Throughout the course, we look at the modern relationship between Russia and the United States and how it continues to evolve.

### History of the Holocaust (4265)

2nd semester; 3 credits

The Holocaust will be examined as a defining event of the modern era, where intolerance, suppression, and genocide were carried out against a group of people on the largest scale ever documented. It was not just a moment

in history but an enduring test of humanity's values—one that continues to resonate today. We will explore the Holocaust through the lens of human responsibility and the moral and immoral choices made by ordinary people, soldiers, politicians, and governments when confronted with injustice and hate. We will begin our study with a visit to the Dallas Holocaust and Human Rights Museum to establish a foundation for understanding the Holocaust and its implications. Later, at the end of the semester, we will visit The Museum of Biblical Art, where we will engage with numerous art pieces that explore Jewish identity and culture, that reflect on the genocide's legacy. Additionally, our class will culminate in a student-centered presentation of Yom HaShoah where students will share reflections, lessons, and historical insights gained throughout the course.

### Understanding September 11 (4270)

1st semester; 3 credits

This course examines the key issues surrounding the terrorist attacks of September 11, 2001. In seeking to understand this momentous event, we explore the recent history of the Middle East (and the wider Islamic world), as well as America's often-conflicted role in this region. Using a variety of sources, media, and perspectives, students view 9/11 through a number of different "lenses." None of these lenses is sufficient by itself, but each has something to contribute as we construct an understanding of this complex event. Students also assess 9/11's impact on a global scale, looking at media reaction, policy responses, and the continued threat of terrorism worldwide.

### Women's History (4280)

1st semester; 3 credits

*Do you know your grandmother's maiden name? Your great-grandmother's?* Women make up half of the population, but their deeds and names tend to be obscured in the historical record. In this class, we attempt to reclaim women's place in history from pre-1492 to the present. While much of this class covers women who lived in the public sphere and left their names in the history books, we also try to look at the lived experiences of women who never made the news. We pay particular attention to how women's stories are recorded. We use the lens of intersection-

ality to guide our historical work. While we focus primarily on women in American history, we also try to examine women and the birth of feminism in a global context.

### **Genocide in the Modern World (4310)**

1st semester; 3 credits

*With our world "growing smaller" each day due to the advent of new technologies, particularly social media, what is our responsibility and what should be our response to mass violence and propagandized hate?* Through a deep dive into case studies of modern genocides across each of the inhabited continents, students engage in not only historical analysis but also the study of human behavior, especially as it relates to racism, religious intolerance, and prejudice. Genocide in the Modern World asks students to wrestle with ethical decision making, themes of justice and equality, and questions of whether genocide is always an intentional act, whether its result is always death and violence, and how communities attempt to reconcile with, repair, and remember their dead. In the end, students should expect to come away with a greater understanding of their own role and responsibilities as a global citizen.

### **Law and Civil Liberties (4325)**

1st semester; 3 credits

*Can the state regulate firearm ownership? Do women have an unfettered right to have abortions? Is the right to privacy fundamental to ordered liberty? Is prayer in school the free exercise of religion or a violation of the separation of church and state? Do the police always need a warrant?* This course examines the workings of the Supreme Court and how our lives are impacted by their decisions. Primary attention is given to the court's seminal decisions with respect to the Bill of Rights and Fourteenth Amendment of the Constitution. Students research court cases, debate the reasoning of the opinions, and time permitting, organize and participate in moot court hearings.

### **Latin America in the 20th Century (4390)**

2nd semester; 3 credits

This course explores the development and evolution of Latin@/x communities and identities in the U.S. Understanding this group is tremendously important to understand the United States, as Latin@s make up the largest "minority" population in the United States.

We will begin by answering the essential question: what or who is a Latin@/x? In answering that question, we will also define the term Hispanic and the difference between racial and ethnic identities. The course will focus primarily on immigrant communities from México, Central America, and the Caribbean.

### **Sports and Society (4410)**

1st semester; 3 credits

Sports and Society is an elective for students interested in expanding their knowledge of sport and how it relates to culture. It is based on the premise that sport is a reflection of society with all of its good points as well as its negative ones. Thus, sample questions include: *To what extent is a sport connected to the culture of its place of origin? How closely linked is a country's sport to the land's customs, economy, and society? Ultimately, how can sports serve as a window into a particular culture?* Beginning with a reading of Buzz Bissinger's Friday Night Lights, regional, national, and international sports are covered, and topics range from those initially proposed by the teacher to student-generated ones as the course develops. Students also examine the notion that the sports community can, and should, take a lead role in bringing about positive social change.

### **Modern Middle East (4420)**

2nd semester; 3 credits

We've all seen the alarming headlines from the Middle East recently: *"Hamas Launches Terror Attack Against Israel", "Iran Aims for Breakthrough in Nuclear Weapons", "Oil Markets Shaky on Fear of Middle East War"*, and on and on.

This class will take you beyond the headlines and the soundbites and will offer a comprehensive look at the broader forces shaping the Middle East. Through readings, seminars, guest speakers, and case studies, you will gain insights and perspectives on the origins of these conflicts, their effect on the region and the world, and possible steps toward greater peace and security.

As unstable and conflict-ridden as this region can be, however, it is also home to three great religions, a rich cultural heritage, and many inspiring activists, humanitarians, and artists. This class will introduce you to these aspects of the Middle East as well, as you will research the people and movements that

don't always make the headlines but do make a positive difference in everyday lives.

### **International Relations (4465)**

1st semester; 3 credits

*Are China and the U.S. on a collision course for war? Can the Israelis and Palestinians find a two-state solution in the Holy Land? Can the Paris climate accord help to cool a warming planet? Do powerful nations have a responsibility to assist vulnerable populations in faraway lands?* These questions dominate global headlines and our daily news feeds. In this course, we go beyond the soundbites and menacing headlines to explore the context, causes, and consequences of the most pressing global issues. Grounding our understandings in the leading IR theories, we assess real-world problems, including the complex interplay of war and peace, conflict and cooperation, and security and human rights. Working with classmates and leaning on the expertise of guest speakers, students also identify and model ways to mediate and resolve some of the most pressing global conflicts.

### **Military History (4490)**

1st or 2nd semester; 3 credits

Military History provides a global survey of human conflict from ancient times through the present. This course, while examining traditional concepts of strategy and tactics, also delves into the social and cultural history of war-making. The chronological focus for the first part of the course spans from the Greco-Persian Wars to the Gunpowder Revolution. The second half examines the important developments that occurred from the gunpowder age through the World Wars. Thematic topics include, but are not limited to military professionalism, armies and empire building, war-making and the nation-state, cultural perceptions of war, the experience of battle and the common soldier, the role of technology in conflict, modern war, limited war, total war, and asymmetric warfare.

### **Economics and Society (4610)**

1st semester; 3 credits

*How can Economic Reasoning help us understand the world? How do people and firms make decisions? How does a nation's economy grow? How does inequality affect both the individual and the economy as a whole? Economics and Society will offer*

students a comprehensive introduction to the key principles of microeconomics and macroeconomics.

Topics covered include demand and supply, free enterprise, the function (and failure) of markets, economic cycles, fiscal policy, monetary policy, income inequality, environmental economics, and globalization. Students will gain an understanding of the United States economy and world economies along with insight into how economics shapes the daily life of each individual in different ways. Classes will include discussions, simulations, debates, role-playing, research, and presentations.

### **AP European History (4640)**

Full year; 6 credits

Prerequisites: Completion of GX 9 and US 10 with a minimum grade of B+ is required; students cannot take multiple AP History classes at the same time

*What role did the Black Death play in the development of the Renaissance? How did sugar change European politics? How did political consolidation affect the art world? What role did technology and scientific innovation play in shaping global communications?* This class seeks to answer these questions and more as it covers European History from 1450 to the present. Students will develop historical arguments and make connections across time and place. The course will prepare students to take the AP Exam in May. The class is open to both juniors and seniors, but students will not be able to take AP European History and AP Government concurrently.

### **Senior Seminar: Rise of 20th Century Dictators (4850)**

2nd semester; 3 credits

Note: Seniors only; interested students must write a 1-2-page statement of interest to Mr. Frankland.

During times of hardship, why do people gravitate toward strongmen? When the signs of a dictator emerge, why do some turn a blind eye? In this course, we will explore the authoritarian regimes of Stalin, Hitler, and Mao, examining the political, social, and economic factors that enabled their rise to power. We will investigate how these leaders consolidated control, maintained power, and the lasting impact they had on the world we know today. The class will culminate in an examination of 20th and 21st-century dictators, in which students will conduct a case study and utilize the International Criminal Court guidelines as a resource to put their dictator on trial.

### **Tutorials in History/Social Science (4900)**

1st or 2nd semester; 3 credits (Pass/Fail)

### **Advanced Tutorials in History/Social Science (4910)**

1st or 2nd semester; 3 credits (Graded)

Permission from instructor and approval by the Head of Upper School and the History Department Chair is required.

One-semester tutorials are available to advanced students. Topics are jointly proposed in writing by the student and instructor.

### **NOT OFFERED IN 2025-2026**

History of Human Rights (4220)

WWI and the Modern World (4235)

War at Home: The WWII Homefront (4245)

Urban Studies: History of Dallas (4320)

History of World Religions (4330)

Globalization, Identity, and U.S. Food Cultures (4425)

LGBTQ History (4510)

# Mathematics

*The Greenhill School mathematics curriculum is designed to furnish Upper School students with a strong conceptual understanding of mathematics, an appreciation for the power of mathematics, the ability to communicate mathematically in an increasingly technological world, and the mathematical skills required for college and future careers.*

*While the graduation requirement entails three consecutive years of mathematics in the Upper School, virtually all students go beyond graduation requirements and complete four full years of mathematics. Some courses are offered at regular, advanced, and honor levels. In consultation with advisors and their current math teacher, students may move between levels from year to year. All courses require a math teacher recommendation.*

*There are opportunities to double up in math in the same year with Precalculus or Calculus and Statistics. For the student who takes Calculus, it is usually a one-year program. High-level students who take AP Calculus AB prior to their senior year and who have an interest in pursuing hard sciences such as Physics or Engineering may be recommended to take AP Calculus BC the following year. Read the course requirements carefully for these options and consult your advisor and current teacher should you be considering this approach.*

*Each student in a math course is required to own a TI-83/84 or a TI-Nspire (non-CAS) graphing calculator. In all math classes, the calculator is used to enhance the understanding of concepts as well as to carry out certain processes. Proficiency in the use of a graphing calculator is an integral component of the curriculum.*

*Greenhill does not allow any yearlong mathematics course to be completed for Greenhill credit by independent study, by correspondence, or by a summer program.*

## Integrated Math I (2040)

Full year; 6 credits

This is the first course in a required two-year course sequence.

This course includes the study of numbers and sets, properties of operations, real numbers, equations and inequalities, verbal problems, factoring, operations with rational expressions, systems of linear equations and inequalities, irrational numbers, and quadratic equations. Students also learn to graph linear equations, systems of linear equations, absolute value functions and quadratic functions, and inequalities of the aforementioned group. Students acquire the necessary manipulative skills of algebra along with an understanding of the concepts involved. Additional topics are covered if time and talent permit.

## Integrated Math II (2050)

Full year; 6 credits

This is the second course in a required two-year course sequence.

This course is the second course in the Integrated Math sequence. It includes the study of Algebra II and Geometry topics such as quadrilaterals, functions, inverse functions, transformations, polynomials, rational expressions, challenging factoring, surface area, volume, circles, binomial theorem, probability, sequences and series, as well as conics. The students will also be introduced to topics that will be widely used in precalculus such as the unit circle and trigonometry.

## Advanced Geometry (2110)

Full year; 6 credits

Prerequisite: Algebra I

This course integrates the concepts of plane and solid geometry with an effective use of algebra. Topics covered include points, lines, planes, angles and angle relationships, parallel lines and planes, triangles, quadrilaterals, circles, similar polygons, area of polygons and circles, surface area and volume of solids, the basic unit circle and right triangle trigonometry, and other extended topics as time permits. These topics are taught using induction as a method of discovery, deduction, and formal proof with an emphasis on logical thinking.

## Honors Geometry (211H)

Full year; 6 credits

Prerequisite: Algebra I and faculty recommendation

This course includes all topics studied in Advanced Geometry, going into greater depth and with a more rigorous approach.

## Algebra II (2210)

Full year; 6 credits

Prerequisite: Advanced Geometry and faculty recommendation

The purpose of this course is to complete mastery of basic algebra concepts and manipulations by stressing the “how” and “why” of mathematics. Topics include equations and inequalities, verbal problems, factoring, fractions, functions and graphs, polynomials, complex numbers, systems of equations, and probability.

## Advanced Algebra II (2220)

Full year; 6 credits

Prerequisite: Algebra I (with an average for the year of at least C-), Advanced Geometry or the Honors equivalent, and faculty recommendation

The purpose of this course is to complete mastery of basic algebraic concepts and manipulations by stressing the “how” and “why” of mathematics. Topics include equations and inequalities, verbal problems, factoring, rational expressions, graphs of elementary functions, complex numbers, systems of equations, conics, exponents, logarithms, and sequences and series.

## Honors Algebra II (222H)

Full year; 6 credits

Prerequisite: Algebra I, Advanced or Honors Geometry, and faculty recommendation

This course includes all topics studied in Advanced Algebra II, going into greater depth and with a more rigorous approach.

## Precalculus (2310)

Full year; 6 credits

Prerequisite: Algebra II or Advanced Algebra II and faculty recommendation

This course covers the initial topics of Advanced Precalculus (2320) with a focus on functions and trigonometry. Topics include general function concepts: conics, absolute value, piecewise-defined functions, symmetry, inverses, and transformations. These concepts are reinforced through examples from families of graphs, including polynomial, rational, exponential, and logarithmic functions.

In addition, this course reviews triangle trigonometry and circular function definitions of sine and cosine, and then proceeds to a treatment of all six trig functions, their graphs, inverses, and applications. Solving techniques for trig equations and verification of trig identities are studied.

### **Advanced Precalculus (2320)**

Full year; 6 credits

Prerequisite: Advanced or Honors Algebra II and faculty recommendation

This course bridges the foundational material learned in Algebra II and the concepts needed in Calculus, with a focus of preparing students to be prepared for AP Calculus AB. Topics include general function concepts: absolute values, piecewise-defined functions, symmetry, inverses, transformations, and slope functions. These concepts are reinforced through examples from families of graphs, including polynomial functions, rational functions, exponential and logarithmic functions, and conics. The course also reviews triangle trigonometry and circular function definitions of sine and cosine and then proceeds to a treatment of all six trig functions, their graphs, inverses, and applications. Solving techniques for trig equations as well as verification of trig identities are studied. Finally, students learn elementary calculus concepts and other advanced topics, including limits, sequences and series, parametric equations, and vector equations. Many of these topics are prerequisites for a full-year college calculus course.

### **Honors Precalculus (232H)**

Full year; 6 credits

Prerequisite: Honors Algebra II and faculty recommendation

This course covers all of the topics of Advanced Precalculus, going into greater depth and with a more rigorous approach. Additional topics include relations defined parametrically, basic matrix theory, and partial fraction decomposition, polar curves, the complex plane, and DeMoivre's Theorem. The course ends with an in-depth introduction to Calculus, including a deeper emphasis on the theory of limits, derivatives, and continuity with some of their applications. Many of these topics are prerequisites for the AP Calculus BC course.

### **Calculus (2410)**

Full year; 6 credits

Prerequisites: Precalculus or Advanced Precalculus and faculty recommendation

This course is an introduction to the calculus of functions of a single variable intended for students who may need some calculus in their future for fields such as biology, economics, and business management. Topics include a brief review of polynomials, trigonometrics, and exponential and logarithmic functions, followed by a discussion of limits, derivatives, and applications of differential calculus. The course then moves on to an overview of integration, basic techniques for integration, and a variety of applications.

### **Advanced Placement Calculus AB (2420)**

Full year; 6 credits

Prerequisite: Advanced Precalculus or Honors Precalculus and faculty recommendation

Note: The AP Examination in Calculus AB is required.

Calculus AB is an intensive first-semester college course in the calculus of functions of a single variable. This course covers differential and integral calculus by engaging with problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions. The content includes but is not limited to topics covered on the AP AB examination. Class attendance is required until the AP Exam in May.

### **Advanced Placement Calculus BC (2430)**

Full year; 6 credits

Prerequisite: Honors Precalculus and faculty recommendation. Note: The AP Examination in Calculus BC is required.

Calculus BC is an intensive first-year college course in the calculus of functions of a single variable. This course covers the material of AP Calculus AB as well as polar coordinates, parametric functions, Taylor and Maclaurin series, and advanced integration techniques, among other topics. The content includes but is not limited to topics covered on the AP BC Examination. Class attendance is required until the AP Exam in May.

### **Multivariable Calculus (2460) (post-AP)**

Full year; 6 credits

Prerequisite: AP Calculus BC and faculty recommendation

This course is a study of advanced mathematics beyond the AP Calculus BC curriculum. The course covers the content of a multiple variable and vector calculus course. Topics include double and triple integrals and their

applications to volumes and surface areas, cylindrical and spherical coordinate systems, and vector topics such as line and surface integrals, Green's Theorem, curl and divergence, Stokes' Theorem, and the Divergence Theorem. The course emphasizes graphical and numerical solutions as well as analytical ones. With time permitting, students will learn a basic introduction to differential equations or introduction to linear algebra. This course is considered an honors course.

### **Advanced Placement Statistics (2520)**

Full year; 6 credits

Prerequisite: Rising 11th grade students must have completed Advanced Algebra II or the Honors equivalent; rising 12th grade students must have completed Advanced Precalculus or the Honors equivalent.

Note: The AP Examination in AP Statistics is required.

The purpose of the AP Statistics course is to introduce students to the major concepts and tools for collecting, displaying, analyzing, and drawing conclusions about data. The course is built around four main topics: exploring data, planning a study, understanding probability theory, and acquiring critical inferential reasoning skills. AP Statistics is a one-year course that is writing-oriented (communication of results and explanations of processes are emphasized) and calculator-based. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college Statistics course. Class attendance is required until the AP Exam in May.

### **Finance and Accounting (2830)**

Full year; 6 credits

Prerequisite: 11th or 12th grade and completed Algebra II

This course has three components that will require students to apply many algebraic and precalculus concepts to real-world scenarios. The first component is an introduction to accounting and investing. This will include financial statement analysis and business ethics. The second component will involve developing a business plan, including a deep dive into the financial side of creating a business. The final component will involve creating a budget from a given scenario. The costs of leasing vs. buying a vehicle, gas and transportation, housing, utilities, taxes, retirement and savings, the importance of building a good credit score, purchasing food, entertainment, taking a vacation, having children, and obtaining var-

ious insurances—life, car, property, renter’s, health, disability, etc.—are discussed. Finally, there will be a service component required to receive credit for the course.

### **Advanced Tutorial in Mathematics (2910)**

1st or 2nd semester; 3 credits

Permission from instructor and approval by the Head of Upper School and the Math Department Chair is required.

One-semester tutorials are available to advanced students. Topics are to be jointly proposed in writing by the student and instructor.

### **Advanced Tutorial in Mathematics (2920)**

1st or 2nd semester; 3 credits (Graded)

Permission from instructor and approval by the Head of Upper School and the Math Department Chair is required.

One-semester tutorials are available to advanced students. Topics are to be jointly proposed in writing by the student and instructor.

## **NOT OFFERED IN 2025-2026**

Statistics (2530)

Personal Finance (2810)

## **LEGACY CORE COURSES**

### **Algebra I (2010)**

Full year; 6 credits

This course includes the study of numbers and sets, properties of operations, real numbers, equations and inequalities, verbal problems, factoring, operations with rational expressions, systems of linear equations and inequalities, irrational numbers, and quadratic equations. Students also learn to graph linear equations, systems of linear equations, absolute value functions and quadratic functions, and inequalities of the aforementioned group. Students acquire the necessary manipulative skills of algebra along with an understanding of the concepts involved. Additional topics are covered if time and talent permit.

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## Modern and Classical Languages

*The Upper School curriculum of the Modern and Classical Languages Department traverses diverse cultures from ancient and modern times and prepares students to be thoughtful global citizens. The department offers a wide range of courses at all levels in Chinese, Latin, and Spanish.*

*The requirement for graduation in the Modern and Classical Languages Department is twofold: first, students must be enrolled in a language course during their 9th and 10th grade years; second, students must complete Level III of one language. In order to advance to the next level, students must earn a minimum yearlong course grade of C-. Yearlong courses are the structure of our foundational levels I-III, and semester courses become available for students beyond the minimum requirement. While the semester courses allow some degree of flexibility in scheduling, it is necessary for a student to maintain a level of competency through sustained enrollment. Thus, a student must seek departmental approval if they interrupt the study of language for more than one semester.*

*The study of modern and classical languages at Greenhill provides students with the option of studying more than one language, with access to AP courses in all languages, and with a wealth of knowledge and experience from the instructors. Additionally, language study promotes the mission and embodies the core values of Greenhill School. Regardless of the language or level, the instructors in this department constantly challenge students to actively engage not only with the language forms but also with the culture of the language they are studying.*

### Spanish I (3110)

Full year; 6 credits

Spanish I is the introductory level for students who have very little or no background in Spanish. Students focus on the basic grammar structures as well as vocabulary dealing with daily activities, cultural experiences, and differences in the Hispanic world. Students begin to develop the four basic language skills: listening, speaking, reading, and writing. The thrust of the program, taught predominantly in the target language, is to develop oral and written proficiency with the long-term goal of mastering the necessary linguistic skills in order to communicate with native speakers.

### Spanish II (3120)

Full year; 6 credits

Prerequisite: 3110 with a minimum yearlong course grade of C- or placement by exam

Spanish II is the continuing course for students who have successfully completed Upper School Spanish I, 8th grade Spanish at Greenhill School, or who can satisfy the prerequisite through a placement test. The class reviews basic grammatical concepts presented in Spanish I and continues to improve the student's communicative proficiency in the basic skills of listening, speaking, reading, and writing. The goal is to enhance language acquisition and oral expression, thus preparing students for Spanish III. Cultural awareness and appreciation of the ever-increasing Spanish-speaking world is emphasized through the use of supplemental materials.

### Honors Spanish II (312H)

Full year; 6 credits

Prerequisite: 3110 or placement by exam and departmental recommendation

This course is designed for students who have demonstrated a strong background and interest at the beginning level of Spanish and would like to be considered candidates for an AP-level course in the future. It aims to strengthen the basic skills: listening, speaking, reading, and writing through the three modes of communication: interpretive, interpersonal, and presentational. The objective of the course is to develop and strengthen the grammatical components crucial to succeed in future honors courses. Assessments include traditional written exercises, oral presentations, and collaborative projects.

### Spanish III (3130)

Full year; 6 credits

Prerequisite: 3120 with a minimum yearlong course grade of C- or placement by exam

The objective of Spanish III is to advance the students' oral communication and writing skills, strengthen their comprehension, and introduce them to contemporary and traditional topics in Hispanic countries. It continues to strengthen the basic skills: listening, speaking, reading, and writing through the three modes of communication: interpretive, interpersonal, and presentational. Students expand their grammar and vocabulary through spontaneous conversational situations and planned oral presentations. In addition, students continue to build cultural awareness and personal responsibility skills throughout the course.

### Honors Spanish III (313H)

Full year; 6 credits

Prerequisite: 312H or placement by exam and departmental recommendation

Honors Spanish III is a yearlong course intended to further strengthen the student's mastery of Spanish and to prepare the student for an AP-level course. It is conducted in Spanish and requires spontaneous use of the language in written, oral, and listening form through the three modes of communication: interpretive, interpersonal, and presentational. The course integrates a thorough review of previous material by using topic-based vocabulary and grammar activities with consistent exposure to authentic materials in Spanish. History, culture, and current events of Spanish-speaking countries are integrated into the lessons.

### Spanish IV (3140)

Full year; 6 credits

Prerequisite: Spanish 3130 with a minimum yearlong course grade of C- or placement by exam

Spanish IV is designed to review previously learned grammar concepts while taking the students' fluency to a more advanced level of oral and written expression through the three modes of communication: interpretive, interpersonal, and presentational. This course focuses on the culture and daily activities of Spain, Mexico, and Central and South America and introduces students to the Hispanic culture in the United States. The course, taught predominantly in Spanish, also explores films, music, art, history, and current

events from the Hispanic world. In addition, students continue to build cultural awareness and personal responsibility skills throughout the course.

### **Spanish V: Readings in Latin American History (3155)**

1st semester; 3 credits

Prerequisite: Spanish 3140 or 3170; may be taken concurrently with 3180.

Requiring considerable competency in Spanish, this course seeks to strengthen a student's proficiency in the language through the study of various social, cultural, and political developments in Latin America from the 16th-century to the present day. Course topics will vary and may include a history of pre-Columbian cultures, the Spanish Conquest of Latin America, the fight for independence, the struggles encountered as newly sovereign Latin American nations, and other historical movements and cultural expressions manifested in the arts, the food, and the music of various Latin American communities. In order to enhance their Spanish through a historical context, students apply the four language skills (listening, reading, speaking, and writing) through three modes of communication: Interpretive, interpersonal, and presentational. The course is taught entirely in Spanish and requires extensive reading and exposure to various digital media.

### **Spanish V: Composition and Culture (3160)**

2nd semester; 3 credits

Prerequisite: Spanish 3140 or 3170; may be taken concurrently with 3180. This course requires considerable competency in Spanish.

In this course, students focus on different forms of creative writing by reading examples from influential authors of the Spanish-speaking world. Students then use the styles of these authors as models for original essays, short stories, poetry, and comics. Students explore contemporary cultural topics in the Hispanic world, such as art, history, identity, politics, and pop culture. Students are expected to enhance their four language skills: listening, reading, speaking, and writing through three modes of communication: interpretive, interpersonal, and presentational. The course is taught entirely in Spanish, and it requires extensive reading and exposure to various digital media.

### **Advanced Placement Spanish Language and Culture (3170)**

Full year; 6 credits

Prerequisite: Spanish 313H, 3140, or placement by exam and departmental recommendation.

Note: The AP examination in AP Spanish Language is required.

This course, which is preparation for the AP Spanish Language and Culture Exam, is conducted entirely in Spanish. The content of the course is in accordance with the College Board Advanced Placement program and is centered on six basic themes. Vocabulary expansion plays a major role due to the exposure to authentic and unabridged materials. Integration of advanced grammar as well as synthesis of information from various sources into written and oral work is expected. Extensive use of digital resources is essential for developing interpretive, interpersonal, and presentational skills.

### **Honors Spanish Literature (post-AP) (3180)**

Full year; 6 credits

Prerequisite: Spanish 3170 or placement by exam and departmental recommendation.

This course is designed for students who have taken the AP Spanish Language course and wish to continue their study of language, literature, and culture at the same level and depth as an AP course. The course objective is to introduce students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Latino literature (in Spanish). The course provides opportunities to develop greater proficiency in the Spanish language while developing the necessary skills and vocabulary to analyze, discuss, and write about different genres of literature. The course aims to help the student progress beyond reading comprehension to read with historical, cultural, and literary sensitivity to empower critical thinking and spontaneous discussion.

### **Latin I (3210)**

Full year; 6 credits

This is the introductory course for students who have very little or no background in Latin. This course introduces study skills required for language study as well as the language, history, and culture of the ancient Romans. Students engage in a variety of assessments that allow the opportunity to demonstrate their proficiency.

### **Latin II (3220)**

Full year; 6 credits

Prerequisite: Latin 3210 with a minimum yearlong course grade of C- or placement by exam.

This course continues the work begun in Latin I, furthering students' knowledge of the Latin language and Roman history and culture. Students build language proficiency through reading increasingly complex Latin text and gain cultural competence through examining the cultural products, practices, and perspectives of ancient Romans and those who interacted with them. Cultural topics include the city of Pompeii and its excavation, gladiatorial games, and political office and power dynamics. Students engage in a variety of assessments that allow the opportunity to demonstrate their development of such mastery and prepare them for the next level of Latin.

### **Latin III (3230)**

Full year; 6 credits

Prerequisite: Latin 3220 with a minimum yearlong course grade of C- or placement by exam.

This course serves as a transition from adapted Latin and grammar paradigms to authentic Latin and complex grammatical structures. Students begin to read both prose and poetry from the Late Republic and Augustan Age. Students engage in a variety of assessments that allow the opportunity to demonstrate their proficiency and prepare them for the next level of Latin.

### **Latin IV (3240)**

Full year; 6 credits

Prerequisite: Latin 3230 with a minimum yearlong course grade of C- or placement by exam.

This course continues studies in authentic Latin and complex grammatical structures. Students read both prose and poetry from various genres of Latin literature. Students explore the world of the Romans as detailed by authors such as Cicero, Catullus, and Sulpicia and articulate similarities and differences across ancient Roman culture and modern cultures. Students engage in a variety of assessments that allow the opportunity to demonstrate their development of such mastery. Plus, they continue developing their skills of literary analysis and criticism in preparation for the Advanced Latin Literature or AP course experiences.

### **Advanced Placement Latin (3250)**

Full year; 6 credits

Prerequisite: Departmental recommendation

Note: The AP Examination in AP Latin is required.

Students read excerpts from different Roman authors, both in Latin and English, as set forth by the AP course syllabus. Students are expected to be able to translate accurately from Latin into English the texts they are reading, demonstrate a grasp of grammatical structures and vocabulary, and discuss passages within the context of each work as a whole. Stylistic analysis and interpretation, which develop from a student's ability to read the Latin version, are integral parts of this course. Readings from modern critical commentaries and other ancient texts help students to place their thoughts and ideas into context.

### **Advanced Latin Literature (3260)**

1st or 2nd semester; 3 credits

Prerequisite: Latin 3240 with a minimum yearlong course grade of C- or placement by exam and departmental recommendation

With any portion of the extant literature written in Latin at the fingertips of the instructor, students in this course delve into thematically related units. Through class discussion, collaborative projects, and scholarly analysis, Latin students engage with all facets of the language, culture, and history. By striving for mastery of Latin, students prepare themselves for further advanced study, both here and beyond. This course may be taken multiple times for credit.

### **Honors Latin Seminar (post-AP) (3280)**

Full year; 6 credits

Prerequisite: 3250 or departmental recommendation

With any portion of the extant literature of the ancient Romans at their fingertips, students in this course delve into areas of their own interest. In the first portion of the course, teachers provide overarching themes within which the students research both primary and secondary works. Students engage in critical reading and participate in Socratic Seminars on these themes. They also craft teaching units that lead their peers through lesser-known works. Later, students select one aspect of their research during the year to prepare and write a lengthy research paper (similar to an honors thesis).

### **Chinese II (3420)**

Full year; 6 credits

Prerequisite: Chinese 3410 with a minimum yearlong course grade of C-, Middle School Chinese 8, or placement by exam

Chinese II continues to expand cultural awareness of the Chinese world and to develop global cultural competency through cultural comparisons and small research projects. Expansion of high-frequency vocabulary and grammar structures continues. The goal of Chinese II is to enhance the proficiency of language skills to prepare students for Chinese III. By the end of the course, students are expected to perform at the ACTFL proficiency level of novice high to intermediate low.

### **Chinese III (3430)**

Full year; 6 credits

Prerequisite: Chinese 3420 with a minimum yearlong course grade of C-, or placement by exam

Chinese III introduces the students to greater structural complexity, both in terms of phonology and syntax. No longer is the short, simple sentence sufficient. Students must create sentences, both written and oral, of at least fifteen words while demonstrating creative engagement with a topic. Public speaking is also emphasized. Crucial is the student's ability to communicate freely using vocabulary and sentence patterns in fresh, original ways. Students at this level must show that they are making Chinese an integral part of their lives and worldview. Successful completion of Chinese III means that students can communicate within a variety of everyday contexts as well as interact with Chinese culture through increased demand for textual literacy.

### **Chinese IV (3440)**

Full year; 6 credits

Prerequisite: Chinese 3430 with a minimum yearlong course grade of C-, or placement by exam

Chinese IV introduces discourse-level complexity to both written and oral communication in Modern Standard Mandarin. Students are required to recognize differences in register based on position and context, even as they continue to build their functional vocabulary and refine their pronunciation. Fluency, even in limited contexts, is the goal. Students are now expected to take fuller individual responsibility for their study of Chinese, and they must work independently to develop automaticity in tonal contour while expressing themselves freely. Regular discussion based

on readings in culture and current events exercise and extend the work in pronunciation and grammar of the first three years while introducing students to the practice of using Chinese to learn about the world we inhabit. After the successful completion of Chinese IV, students will have secured a lifelong, habitual learning relationship with Chinese.

### **Advanced Chinese (3460)**

Full year; 6 credits

Prerequisite: Chinese 3440 with a minimum yearlong course grade of C-, or placement by exam

Advanced Chinese is the precursor to AP Chinese. The course introduces the advanced student to the practice of developing cultural knowledge while training in linguistic proficiency. Students in Advanced Chinese must at all times be prepared to use Chinese to learn Chinese, as the class is conducted primarily in the target language (Modern Standard Mandarin), and students become familiar with linguistic variation across Greater China. Advanced Chinese is demanding and engages all aspects of the Greenhill Chinese Program—listening, speaking, reading, writing, culture, the Chinese writing system, and research. Significant time and emphasis is placed on writing Chinese essays. Students taking this course should be making Chinese a crucial part of their worldview and daily experience.

### **Advanced Placement Chinese Language and Culture (3480)**

Full year; 6 credits

Prerequisite: Chinese 3460 with a minimum yearlong course grade of C- and departmental recommendation

Note: The AP Examination in AP Chinese Language is required.

AP Chinese Language and Culture is the capstone course of the Greenhill Chinese Program. The goal of this course is to provide highly qualified students with rich and varied opportunities to further their proficiency in listening, speaking, reading, and writing Modern Standard Mandarin Chinese. This, in turn, positions them for success on the AP Chinese Exam. Students enrolled in this class experience maximal exposure to myriad aspects of

Chinese culture integrated into the process of communicating in and learning through Mandarin. Students practice using Chinese to comprehend and analyze issues that are pertinent to their life and community. Chinese is both the target language and the language of instruction, and assessments are regular and varied.

**Advanced Tutorials in Modern & Classical Languages (3310)**

1st or 2nd semester; 3 credits (Pass/Fail)

Prerequisite: Level III and approval of the Department Chair and Head of Upper School.

One-semester tutorials are available to advanced students who are looking to pursue studies beyond, or in addition to, prescribed courses in the Modern and Classical Languages Department. Topics are to be jointly proposed in writing by the student and instructor.

**Advanced Tutorials in Modern & Classical Languages (3320)**

1st or 2nd semester; 3 credits (Graded)

Prerequisite: Level III and approval of the Department Chair and Head of Upper School.

One-semester tutorials are available to advanced students who are looking to pursue studies beyond prescribed courses, not to shadow courses offered due to a scheduling conflict, in the Modern and Classical Languages Department. In order to be considered as a graded tutorial, clear expectations, syllabi, and rubrics must be presented for consideration. Topics are to be jointly proposed in writing by the student and instructor.

**NOT OFFERED IN 2025-2026**

Spanish V: Readings in Mexican History (3150)

Chinese I (3410)

# Physical Education

The Greenhill Physical Education program provides students with opportunities for the acquisition of the knowledge and skills necessary to create the foundation for engaging in an active, healthy lifestyle. Each course is designed to help students learn what it means to be physically fit by learning the components of health and skill-related physical fitness. Students are introduced to a wide variety of activities that emphasize how to manage and maintain a well-balanced fitness program. We strive to create a learning environment for our students to explore challenges in an active, supportive, and non-threatening atmosphere. Each student learns about the need for assessment and variety in their fitness program. In addition to the physical domain, it is our goal to help students develop a positive self-image, develop self-discipline, learn the basics of nutrition, and develop stress relief techniques. Ultimately, it is our goal to develop students who value the role of physical fitness and take personal responsibility for making informed decisions that help them achieve and maintain a well-balanced, healthy lifestyle.

## Physical Education Requirements

- 9th Grade: Foundations of Fitness and Wellness is a required course for all 9th grade students. Plus 1 semester of another Physical Education course or 1 season of Team sport. 9th grade students are still encouraged to participate in multiple sports if it fits their schedule.
- 10th Grade: 2 semesters of Physical Education or 1 semester and 1 season of Team Sport or 2 seasons of Team Sport
- 11th Grade: 1 semester of Physical Education or 1 season of Team Sport
- 12th Grade: 1 semester of Physical Education or 1 season of Team Sport

Students may take only one physical education course per semester (unless prior approval has been granted by the department chair). It is recommended that students vary their physical education selection by taking a different course each semester. Required Devices: All Upper School students must acquire an approved fitness tracking device if

they participate in Physical Education classes and/or on Greenhill sports teams. Specifics about approved devices will be provided by the sports performance staff prior to the school year.

## Foundations of Fitness and Wellness (8015)

1st semester; 3 credits (Pass/Fail)

Note: This course is required for all 9th grade students.

This course is designed to introduce students to the knowledge and skills that are necessary to build a lifelong balanced approach to fitness and wellness. Students will be introduced to a wide variety of fitness and wellness topics through classroom sessions and physical activity sessions. It is the goal of the course to help students make healthy choices and create habits to support them in maintaining a healthy lifestyle.

## Workout Challenge (8030)

1st or 2nd semester; 3 credits (Pass/Fail)

Prerequisite: Foundations of Fitness and Wellness or 4 seasons of Greenhill Athletics (two in 9th grade and two in 10th grade)

This course is designed to be an enjoyable, challenging, easy-to-follow workout program for students of all abilities. Students participate in a program designed by the sports performance staff. This course builds upon skills learned in Foundations of Lifetime Fitness. Workouts include elements of cardio, strength, core, and flexibility training.

## Yoga (8040)

After School; 1st or 2nd semester; 3 credits (Pass/Fail)

Class size is limited based on class location.

Beyond being a physical system of exercise, yoga is a discipline, a philosophy, and a way of life. Through yoga, we become clearer of mind, stronger of body, and more peaceful at heart. The class focuses on breathing practices, physical postures, and flowing sequences that bring body and mind into alignment.

## Independent Program Design (8050)

1st or 2nd semester; 3 credits (Pass/Fail)

Prerequisite: Departmental approval

This course is designed for self-motivated students who have the foundational knowledge through physical education courses to begin to create and implement a personal fitness plan. Students are responsible for establishing SMART goals and developing strategies of achievement on their own time, with assistive instruction by the sports performance

staff. These programs are to be completed off-campus. Students are monitored by an instructor but are responsible for maintaining a complete fitness portfolio, including workout logs, food journals, activity monitor reports, and pre- and post-fitness tests. This course requires multiple orientation sessions prior to beginning the individualized program.

Additional notes: Students must have off-campus gym accessibility and access to fitness tracking gear/equipment (software, hardware).

## Theater: Musical Production (8560 PE or 6450 FA)

1st Semester; 3 credits (FA = Graded; PE = Pass/Fail)

Class of 2028 and 2029: a Prerequisite of one of the following courses, Acting I, Improv Comedy, Choir, Dance, or Theater Appreciation. A prerequisite can be taken concurrently with this class. Students may enroll in this course for either Fine Arts or Physical Education credit.

This course is designed for the student whose interests lie in musical theater performance. Every student is part of the ensemble, attends rehearsals, and learns dances and songs in the production. Students also develop exciting characters suitable for the production with an emphasis on character development, technical proficiency (correct posture, alignment, breath), and performance quality (focus, style, and musicality). Auditions generally take place during the first week of the first semester. This course culminates in a performance weekend where students are showcased to the Greenhill community and beyond. Later in the year, the production travels to the ISAS Fine Arts Festival.

## Greenhill Dance Company (8570 PE or 6440 FA)

1st or 2nd semester; 3 credits

(FA = Graded; PE = Pass/Fail)

Prerequisite: Instructor approval

Students are encouraged to enroll in this course as a full-year member but may enroll in a single semester. Credit can be received for either Fine Arts or Physical Education and may change enrollment each semester depending on credit needs.

This is the Greenhill dance performance group. This course is designed for the dance student whose interests lie in dance technique and performance. Emphasis is placed on technical proficiency, performance quality, and working as a vital member of the company. Students perform advanced movement sequences, participate in improvisation experiences, learn choreography, and engage in class discussions and peer-to-peer critique sessions. For those who are interested,

students also have the opportunity to choreograph. Company members also engage in various aspects of production and promotion for dance performances, including ISAS Fine Arts Festival.

### **Beginning and Intermediate Dance (6435 FA or 8565 PE)**

1st or 2nd semester; 3 credits (FA = Graded; PE = Pass/Fail)  
Credit can be received for either Fine Arts or Physical Education and may change enrollment each semester depending on credit needs.

Step into the world of dance with Beginning & Intermediate Dance, a dynamic and immersive course that explores the fundamentals of ballet, modern, and jazz techniques. This class is designed to inspire creativity and build confidence as students develop strength, flexibility, and stamina through engaging and high-energy movement sessions. Through focused practice and collaborative choreography, students will refine their performance quality, discover stylistic differences between dance genres, and express their unique artistic voice. Whether you are new to dance or looking to advance your skills, this course fosters perseverance, teamwork, and self-expression in a supportive and fun environment. Aligned with the Fine Arts Department's mission to celebrate the creative process, this class prepares students for more advanced opportunities, including auditions for the Greenhill Dance Company. Open to all skill levels, it fulfills either Fine Arts or PE credit and encourages every student to explore their potential as a performer.

### **Backpacking and Camping (8610)**

After School/2nd semester; 3 credits (Pass/Fail)

This course develops skills, enhances fitness, and raises students' awareness of the environment outside of their doors. Through various activities, including navigation exercises, orienteering races, and backpacking trips, students learn to access outdoor recreational areas safely and responsibly. After-school hiking trips to Dallas-area parks and nature preserves help build strength and endurance, while class instruction focuses on the necessary skills to create a home away from home in the wilderness. This course requires attendance at two weekend backpacking trips (Friday-Sunday). The school will furnish most necessary equipment for class time and trips, but students must bring a sleeping pad and sleeping bag.

### **Athletics Tutorials (8900)**

1st or 2nd semester; 3 credits (Pass/Fail)

Students who are participating at an advanced level in an outside activity or sport may apply for a tutorial in lieu of participating in PE/Athletics. An online application must be completed prior to the school year that meets a set of criteria for approval by the Athletics Tutorial Committee. Criteria for approval include participation at the highest level available within a student's age group and a commitment of hours similar to that of an interscholastic sports team. A full list of criteria is listed on the online tutorial application.

## **INTERSCHOLASTIC ATHLETICS**

### **Greenhill Interscholastic Athletics Teams**

Fall, Winter, or Spring; 3 credits (Pass/Fail)

Greenhill School places a high degree of importance on the educational value of our interscholastic athletics programs.

Each semester, Greenhill offers a variety of varsity and junior varsity athletic teams. Our athletics teams strive to provide competitive opportunities for students to develop not only their athletic skills, but also to learn the equally important concepts of sportsmanship, teamwork, leadership, relentless effort, resilience, and goal setting.

Teams practice for approximately two hours at the conclusion of the academic school day. Games and practices may be scheduled on Saturdays and during the holidays. Greenhill's teams participate in the Southwest Preparatory Conference (SPC).

### **Student Athletic Training Aide**

Fall, Winter, Spring; 3 credits (Pass/Fail)

Prerequisite: Must receive prior approval from the Head Athletic Trainer

The Student Athletic Training Aide program offers students an opportunity to explore their interest in sports medicine and related allied health fields. This course provides students with an opportunity to assist and learn from a certified athletic trainer. Throughout the course, students are exposed to basic techniques used daily in the athletic training profession. This course satisfies a physical education requirement and requires some physical activity.

### **Full-time Team Managers**

Fall, Winter, or Spring; 3 credits (Pass/Fail)

Note: Each team will have a preapproved number of slots for managers each season. Students accepted as team managers will register for the sport and are added to the team roster.

The purpose of the team manager program is to provide support for the school's interscholastic sports teams. The program is designed to give students valuable work experience by being a part of an interscholastic athletic team. A team manager's duties include completing post-game write-ups, assisting with practices, sports nutrition pickup, management of home contests, travel to away contests, scorekeeping, stat-keeping, videotaping, and various other administrative duties. Team managers must invest an amount of time comparable to the athletes. In order for a team manager to receive PE credit, they must participate in all team activities, including practices and competitions, and complete a required number of sports performance training sessions.

## The following teams represent Greenhill

FALL	WINTER	SPRING
<b>Boys</b>	<b>Boys</b>	<b>Boys</b>
Cross Country	Basketball	Baseball
Football	Soccer	Golf
Volleyball	Swimming	Lacrosse
Cheerleading	Cheerleading	Tennis
		Track
<b>Girls</b>	<b>Girls</b>	<b>Girls</b>
Cross Country	Basketball	Softball
Field Hockey	Soccer	Golf
Volleyball	Swimming	Lacrosse
Cheerleading	Cheerleading	Tennis
		Track

# Science

## Minimum requirements for Science courses:

**9th Grade:** Physics

**10th Grade:** Chemistry

**11th Grade:** Biology

## LAB SCIENCES

### Physics (5410): 9th Grade

Full year; 6 credits

Physics is the introductory course in Upper School science. This course is hands-on, minds-on, and in alignment with our 8th grade science class and frames science as a process of inquiry and model development. Class time is spent in lab investigations, group discussions, and problem-solving exercises as students create models to describe the natural world. Specific topics include motion, momentum and force in one dimension, energy, electric force and energy, mechanical waves, and models of light. These models are used to explore relevant, authentic, and interesting problems, such as a meteor impact, vision and the human eye, and imaging atoms. Learning progression is assessed using a standards-based, or competency-based, model that is currently being used in our Greenhill Middle School Science Department, in several Upper School courses, at our online partner school, the Global Online Academy, and in many progressive independent institutions across the nation.

### Chemistry (5310)

Full year; 6 credits

Prerequisite: 9th Grade Physics

Chemistry comprises a study of the many areas of general chemistry, focusing both on those foundational areas necessary to understand modern biology and advanced topics necessary to succeed in a follow-on AP course in biology or chemistry. The character of this course is lab-centered, inquiry-based, and challenging. The process of science and the acquisition of essential facts are covered

implicitly, and students are expected to integrate conceptual aspects from all disciplines of science while achieving an advanced chemistry experience. Specific topics include atomic and molecular structure, intermolecular forces, particulate understanding of matter, systems-based approach to chemical reactions, and thermodynamics. Learning progression is assessed using a standards-based, or competency-based, model that is currently being used in several Upper School courses, at our online partner school, the Global Online Academy, and in many progressive independent institutions across the nation.

### Honors Chemistry (532H)

Full year; 6 credits

Prerequisite: 9th Grade Physics and departmental approval

Honors Chemistry is an introductory course in chemistry delivered at an accelerated pace. The course comprises a study of the many areas of general chemistry, focusing both on those foundational areas necessary to understand modern biology and advanced topics necessary to succeed in a follow-on AP course in biology or chemistry. The character of this course is lab-centered, inquiry-based, in-depth, and fast-paced. The process of science and the acquisition of essential facts are covered implicitly, and students are expected to integrate conceptual aspects from all disciplines of science while achieving an honors chemistry experience. Specific topics include atomic and molecular structure, intermolecular forces, particulate understanding of matter, systems-based approach to chemical reactions, kinetics, equilibrium, and thermodynamics. Learning progression is assessed using a standards-based, or competency-based, model that is currently being used in several Upper School courses, at our online partner school, the Global Online Academy, and in many progressive independent institutions across the nation.

### Biology (5210)

Full year; 6 credits

Prerequisite: 9th Grade Physics, 10th Grade Chemistry

Biology serves to continue a student's growing sophistication in modern sciences by building upon core concepts presented in Greenhill's 9th grade and 10th grade Physics and Chemistry courses. Units of study are tied

together by central themes in biology, such as emergent properties, cells, heredity, structure and function, environmental interactions, homeostasis, diversity, evolution, and science as a process of inquiry. This course utilizes inquiry-based labs to emphasize foundational concepts while drawing on concepts from all disciplines of science. Learning progression is assessed using a standards-based, or competency-based, model that is currently being used in several Upper School courses, at our online partner school, the Global Online Academy, and in many progressive independent institutions across the nation.

## SCIENCE ELECTIVES

### Human Reproductive Biology (5250)

1st or 2nd semester; 3 credits

Prerequisite: Chemistry and Biology (may be concurrent)

Human Reproductive Biology continues students' familiarization with their reproductive biology, personal development, and their expression. Providing greater depth and exploration of topics presented in other areas, students examine the evolution of sexual reproduction; hormone regulation of living systems; sexual anatomy, development, and diversity; sexual activity; pregnancy and childbirth; embryonic development; puberty; fertility, contraception and sexually transmitted infections; and other topics that explore and represent the variety of human sexuality.

### Chemistry of Photography (5340 SCI or 6140 FA)

1st semester; 3 credits

There is a fee for class-related supplies.

This course may be taken for either Fine Arts 6140 or Science 5340 credit.

This course allows students to explore the interconnectedness of a Fine Arts discipline (photography) and a Science discipline (chemistry). Students simultaneously explore several photographic techniques and the chemical explanations behind those techniques. Students who have completed this course are able to reflect and speak on the artistic meaning of their pictures and explain, on a chemical level, the processes and techniques used to achieve the final works of art. Experiments and imagery are produced with the wet plate collodion process, black-and-white toning techniques, solarization, and 19th-century

printing/ shooting techniques. A final portfolio is produced along with weekly tests/quizzes, critiques, and a final project assessed on artistic and chemical understanding.

### Physics II: Astronomy (5435)

2nd semester; 3 credits

Prerequisite: 9th Grade Physics

This is a descriptive survey course studying our struggle to comprehend the universe.

It begins with an extension of the 9th grade Physics topics to celestial motion as described using Kepler's Laws and Newton's Law of Universal Gravitation. Additional topics covered include changing skies, constellations, the solar system, astronomical tools, strange and distant celestial phenomena, extraterrestrial life, and cosmological theories.

### Materials Science (5560)

1st or 2nd semester; 3 credits

Prerequisite: 9th grade Physics and Chemistry

Materials Science is an interdisciplinary course that combines elements of physics, chemistry, and engineering to unlock fields of study and research that focuses on understanding and manipulating different types of materials to create new and improved products for various industries and technologies. It involves investigating the structure, properties, and behavior of materials, such as metals, ceramics, polymers, and composites, without requiring a deep knowledge of chemistry. This application is a critical aspect of engineering, as virtually all technological advances are limited by the available materials. As a result of this challenge, Materials Scientists and Engineers are engaged in exploring the numerous ways that materials can enrich everyday lives. Without this effort to discover and develop new materials, our world of computers, wireless phones, biomedical implants, and varying modes of transportation would not be possible.

### Advanced Tutorials in Science (5910)

1st or 2nd semester; 3 credits (Pass/Fail)

### Advanced Tutorials in Science (5920)

1st or 2nd semester; 3 credits (Graded)

Permission from instructor and approval by the Head of Upper School and the Science Department Chair is required.

One-semester tutorials are available to advanced students. Topics are to be jointly proposed in writing by the student and instructor.

## ADVANCED PLACEMENT ELECTIVE COURSES

### Advanced Placement Biology (5290)

Full year; 6 credits

Prerequisites: Chemistry and departmental approval

Note: The AP Examinations in Biology is required.

This is a rigorous one-year college-level biology program culminating in the AP Examination. Coursework includes laboratory and independent projects. Students perform an extensive series of laboratory investigations as specified by the College Board. Students taking this course are expected to complete a series of summer assignments to review basic chemistry and biology concepts they may not have considered for several years. Credit for two semesters of biology is typically awarded by colleges for a qualifying AP Exam score.

### Advanced Placement Chemistry (5390)

Full year; 6 credits

Prerequisites: Chemistry, Algebra II, and departmental approval

Note: The AP Examination in Chemistry is required.

AP Chemistry covers all topics studied in a typical one-year, college-level chemistry course. The course has an intensive lab component. Students taking this course are expected to complete a series of summer assignments to review basic chemistry concepts they may not have considered for several years. Credit for two semesters of chemistry is typically awarded by colleges for a qualifying AP Exam score.

### Advanced Placement Physics I (5470)

Full year; 6 credits

Prerequisites: One year of Geometry, one year of Algebra II (may be concurrent), and departmental approval. 9th Graders interested in taking AP Physics I must be enrolled in Honors Algebra II, pass a placement exam, and receive departmental approval

Note: The AP Examination in Physics I is required.

This course is equivalent to a first-semester, algebra-based, college-level introductory physics class. This course provides an in-depth exploration of translational and rotational mechanics, the relationship between energy, time, and momentum, simple harmonic motion, and fluid mechanics. There is a significant laboratory component to this course, and it moves at a brisk pace. Group collaboration, critical thinking, problem-solving, scientific inquiry and communication skills are stressed. Credit for a first semester of college physics may be awarded by colleges

for a qualifying AP exam score.

### Advanced Placement Physics II (5480)

Full year; 6 credits

Prerequisites: One year of Physics; Precalculus (may be concurrent) and departmental approval

*Beginning with the 2026-27 school year, the prerequisite will be AP Physics I and Precalculus (may be concurrent)*

Note: The AP Examination in Physics II is required.

This course provides a study of thermodynamics, electricity and magnetism, mechanical waves and sound, optics, and modern physics. The course has a strong laboratory component. Group collaboration, critical thinking, problem-solving, scientific inquiry, and communication skills are stressed. Credit for a second semester of college physics may be awarded by colleges for a qualifying AP Exam score. This course of advanced physics study is most appropriate for students interested in a medical, or life sciences major in college.

### Advanced Placement Physics C (5490)

Full year; 6 credits

Prerequisites: One year of Physics and AP Calculus AB or BC (may be concurrent) and department approval.

*Beginning with the 2026-27 school year, the prerequisites will be either a year of Physics and AP Calculus BC (may be concurrent) OR AP Physics I and AP Calculus AB (may be concurrent)*

Note: The AP Examinations in both Physics C-Mechanics and Physics C-Electricity & Magnetism are required.

This course provides an in-depth study of mechanics as well as electricity and magnetism, at a mathematical level that requires the use of calculus. There is a significant laboratory component to the course, and it moves at a brisk pace. Credit for two semesters of engineering physics may be awarded by colleges for each qualifying AP Exam score. This course of advanced physics study is most appropriate for students interested in an engineering, physical science major in college.

### Advanced Placement Environmental Science (5590)

Full year; 6 credits

Prerequisites: Chemistry, Biology (may be concurrent), Algebra II, and departmental approval

Note: The AP Examination in Environmental Science is required.

Dynamic processes operating on a timescale of milliseconds to millennia to millions of years shape the landscape and ecosystems that we experience every day. Perhaps the two most compelling revelations in environmental and earth science are: 1) these processes are intricately connected, and 2) we,

as humans, have a unique ability to impact these unlike any other species. Understanding environmental systems begins with a broad understanding of biology, chemistry, physics, geology, and ecology and how these disciplines interconnect. In addition, there is great social, political, and economic significance to the appreciation of environmental dynamics over the past century. This college-level course gives students a solid quantitative background in addressing environmental issues and affords students the opportunity to wrestle with the monumental task of deciding what to do about it.

### **NOT OFFERED IN 2025-2026**

Biochemistry (5230)

Biotechnology Lab Techniques (5240)

Physics II: Biophysics (5455)

Science and Sustainability (5530)

Climate Science (5550)

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## Summer on the Hill (courses for credit)

The Summer on the Hill Program offers myriad courses over an 11-week season for students of all ages. Below are the courses that are available for Upper School students that also are accepted as credits toward graduation. These courses and credits are recorded on transcripts. Online registration will open in February 2025 at [www.greenhill.org/summer](http://www.greenhill.org/summer). Inquiries, questions, and clarifications may be sent to John Thompson in the Summer on the Hill Office (x5490).

Please note: Greenhill does not accept summer work from other programs or schools.

Note: Courses, schedules, and costs shown in this section are offered during summer 2024.

### US Photography II (6120)

For credit: Course 6120; Grades 9-12; June 2-20

To receive credit, Upper School students are required to attend all three weeks and have 100% class attendance. Prerequisite: Photo I, or for instructor's approval, see Mr. Lopez.

There is a fee for class-related supplies.

Photography II is an exploration of digital photography as an artistic expression utilizing Adobe Photoshop and further integration of the darkroom. Assignments explore creative ways to solve problems in the digital darkroom and challenge the artist both creatively and technically. An introduction to studio lighting and creative control of exposure enhances the technical prowess of the artist. Issues-based photographic projects are explored throughout the course in the form of a written thesis called an Artist Statement. This course may be repeated for credit.

### Abstract and Experimental Photography (6135)

For credit: Course 6135; Grades 9-12; June 2-20

To receive credit, Upper School students are required to attend all three weeks and have 100% class attendance. Prerequisite: Photo I, or for instructor's approval, see Mr. Lopez.

There is a fee for class-related supplies.

Join Mr. Lopez as we delve deeper into the meaning and redefinition of the process of photography. Utilizing traditional and contemporary techniques, this course will explore the relationship between silver, light, metal, glass, and paper, and we'll endeavor to create images using untraditional and experimental ways. Students will create

wet cyanotypes, chemigrams, solargraphs, alternative silver emulsion toning methods, experimental Polaroid techniques, and pinhole imagery. Finally, students will explore the highly experimental process, Mordançage—a process that melts the gelatin of the black-and-white print. We will take a field trip to photograph in downtown Dallas to generate images for the class. Images will be submitted to future exhibitions and contests.

### Video Production: SOTH (6520)

For credit: Course 6520; Grades 9-12; June 2-13

To receive credit, Upper School students are required to attend both weeks and have 100% class attendance.

This course is a different but equally engaging filmmaking experience from the semester Video Production class; similar in that students divide into groups to produce small finished films during the class, very different because this is the only time of the year that film students get to use all of the MPAC, it is also the only time where they have the option to work alongside AVP students, the only time that AVP alums return to help as counselors for the class, giving hands-on help and advice as you produce your films, the only time film students from other schools can work together on your films. It is also the only time you can really dedicate your mind to filmmaking for a solid two weeks. This is a singular filmmaking experience and a lot of fun. Video Production: SOTH can be taken all four US summers for credit.

### App Development (9320)

For credit: Course 9320; Grades 9-12; June 2-20 or June 23-July 11

To receive credit, Upper School students are required to attend all three weeks and have 100% class attendance.

Have you ever wanted to design and build your own iOS or Android app but didn't know where to start or thought that the coding would be too hard? Well, this course is for you! Through this course, you will learn how to use various prototyping tools to wireframe ideas to test functionality and user experience (UX) and finalize an app that you can publish on Google Play and the Apple App Store! We will teach students digital prototyping methods and how to design for and analyze the effectiveness of various user experiences, learn graphic design fundamentals and how to code the functionality of an app.

### UX Design & Exploration (9330)

For credit: Course 9320; Grades 9-12; June 2-20 or June 23-July 11

To receive credit, Upper School students are required to attend all three weeks and have 100% class attendance.

UX Design & Exploration will teach students how to explore, tell the stories of, and design human experiences. Why is this important? Because these experiences drive consumer choice. Think about the experience of a Chick-fil-A drive-through vs. a McDonald's drive-through, standing in line for a ride at Disney World vs. Six Flags, or visiting an Apple Store vs. a Best Buy. These experiences have dramatic effects on consumer choice and a business's success. Within this course, students will learn the skills to assess and design user experiences through methodologies such as journey mapping, the five E's model, persona development, and others. Students will then learn how to build, prototype, and test user experiences that they develop.

# Global Online Academy

Greenhill is a member of a global consortium of independent schools that are collectively known as the Global Online Academy or GOA. GOA is a nonprofit, global partnership of leading independent schools bringing intellectually challenging programs and excellent teaching online. These classes are open to all Greenhill students during their junior and senior years. Junior and senior students receive priority enrollment. Sophomore students can be nominated by an advisor but are not guaranteed enrollment. GOA courses are not open to freshmen. Tuition is \$550 per semester and \$1,100 for a yearlong course. Summer tuition ranges from \$800 to \$1,100. As an added benefit to students during the school year, Greenhill covers 50% of the tuition. Summer courses are exempt from this benefit.

Students interested in enrolling in GOA courses must complete the application process online. The form is located through the GOA box on the Greenhill Resource Board. Enrollment in GOA courses is also contingent upon advisor and GOA Site Director approval. (For select courses, Department Chair approval is also needed.)

Students are allowed to take one GOA class each semester for a total of four GOA classes during their time at Greenhill. Students may also choose to enroll in one GOA course per summer. Under special circumstances, these limits may be waived to accommodate the special needs of an individual student. Those requests originate with the advisor and are approved by the GOA Site Director.

Reasons for taking a GOA class include:

- GOA offers a course that is not currently offered at Greenhill.
- Create flexibility in your schedule and explore the world of online learning.
- The class you want at Greenhill is full, and GOA offers a similar course.
- Connect with students from across the country and around the world.

Online courses are not for everyone. They require a high level of ability to be self-disciplined and self-directed. These courses follow set schedules, which are largely asynchronous and are NOT self-paced.

Students should expect to commit a minimum of five to seven hours a week (or more) to a single GOA class during the year, and 10 to 15 hours a week (or more) during the summer. Summer courses designed to replace a yearlong high school course will require a minimum of 15 to 20 hours a week.

GOA courses must be part of a student's daily schedule and cannot exceed Greenhill's definition of a full schedule of eight academic classes and one after-school sport/activity.

Including GOA, a student may not exceed eight course enrollments on a semester transcript. Students must schedule a GOA course in lieu of a free period and utilize the designated time to work on their GOA class as if it were a Greenhill class meeting on campus.

Students earn three credits for each semester class taken.

## Global Online Academy

### Design & Innovation

All courses labeled Design & Innovation count toward the graduation requirements.

### Fine Arts

Courses labeled Fine Arts count toward the graduation requirements and are applied to the (junior or senior) year the course is taken.

### English

Courses labeled English count toward English electives.

### History

Courses labeled History and Social Science count toward history electives.

### Mathematics

These courses count as Math elective credits but cannot be used to fulfill any part of our existing sequential course requirements.

### Modern & Classical Languages

Students must complete Greenhill requirement of level III in any single language. GOA language classes may be taken concurrently to expand a student's experiences in languages. These classes earn a language elective credit.

### Science

Courses labeled Science count toward elective science.

### Integrated Studies

These classes count toward general graduation credits but do not satisfy any specific graduation requirement.

## Global Online Academy Academic Calendar 2025-2026

### SUMMER 2025 DATES

Enrollment opens Friday, February 14, 2025

Summer: June 16-August 1, 2025

These seven-week summer courses may be taken by Greenhill students for credit. Summer courses are exempt from the 50% tuition coverage Greenhill provides during the school year. Course tuition ranges from \$800 to \$1,100.

Abnormal Psychology	Computer Science II: Game Design & Development	Health & Fitness	Investing II
Algebra I*	Creative Nonfiction Writing	International Relations	Medical Problem Solving I
Architecture	Cybersecurity	Introduction to Artificial Intelligence	Microeconomics
Bioethics	Digital Photography	Introduction to Branding & Marketing	Personal Finance
Business Problem Solving	Fiction Writing	Introduction to Legal Thinking	Precalculus*
Computer Science I: Computational Thinking	Genocide & Human Rights	Introduction to Psychology	Problem Solving with Engineering & Design
Computer Science II: Analyzing Data with Python	Geometry*	Investing I	

\*Courses not eligible for Greenhill credit and may be taken for remediation purposes only.

Semester 1 dates: August 27-December 12, 2025

Semester 2 dates: January 14-May 1, 2026

Full-year dates: August 27, 2025—May 1, 2026

Enrollment opens Monday, March 31, 2025. Important note: Students should be aware of both Greenhill and GOA add/drop deadlines. GOA deadlines outline potential financial penalties.

### SEMESTER 1

August 20, 2025	Semester 1 and yearlong course welcome pages published for students
August 27-29	Synchronous teacher/student pre-course conversations. These are important (ungraded) initial conversations between teachers and students.
August 27	Semester 1 and yearlong courses open
September 5 (6 pm CDT)	Last day to ADD a GOA course (and last day to DROP with no financial penalty)
September 12 (6 pm CDT)	Last day to DROP a GOA course
October 17	End of Grading Period 1
October 20-24	Mid-semester break
October 24	Midterm Learning Reports distributed
December 5	Course Catalog for 2026-2027 is published, along with 2026-2027 Academic Calendar
December 12	Semester 1 ends (end of Grading Period 2)
December 19	Semester 1 Grade Reports distributed

### SEMESTER 2

January 8, 2026	Semester 2 course welcome pages published for students
January 14-16	Synchronous teacher/student conversations for Semester 2 courses. These are important (ungraded) initial conversations between teachers and students.
January 14	Semester 2 courses open (yearlong courses resume)
January 23 (6 pm CST)	Last day to ADD a Semester 2 GOA course (and last day to DROP with no financial penalty)
January 30 (6 pm CST)	Last day to DROP a Semester 2 GOA course
March 6	End of Grading Periods 1 (semester) and 3 (yearlong)
March 9-13	Mid-semester break
March 13	Midterm Learning Reports distributed
March 31 (6 pm CDT)	Enrollment opens
May 1	Semester 2 ends; end of Grading Periods 2 (semester) and 4 (yearlong)
May 8	Grade Reports distributed

## SUMMER COURSES EQUIVALENT TO YEARLONG COURSES

### MATHEMATICS

#### Algebra

Summer; 0 credits

Department: N/A; This course is not eligible for credit and may only be used for remediation purposes.

Prerequisite: Pre-Algebra or its equivalent

**Fast-Track Your Math Mastery:** Ready to level up in math? This accelerated seven-week foundational Algebra I summer course will give you a head start in high school math by helping you master essential algebraic skills. You will be guided through solving equations, understanding the properties of numbers, and exploring mathematical relationships. Get ready to tackle linear equations, inequalities, functions, and polynomials while taking on real-world word problems that translate into algebraic equations and navigating the coordinate plane. Plus, you'll lay the groundwork for Algebra II concepts like quadratic equations and systems of equations. **Why Take This Course?** You'll build analytical reasoning and sharpen your math skills through hands-on problem-solving, setting you up for success in higher-level math and future studies in math and science. With a fast-paced, intensive schedule (be prepared to put in 15-20 hours a week), you'll cover a full year's worth of material and be prepared for Algebra II. Many students take this course in order to go into Algebra I with a strong foundation in September, while others use this course to accelerate through their school's Algebra 1 program during the summer. Upon request, GOA's Algebra I teachers can make a recommendation to a student's home institution as to whether the student has mastered the key competencies of Algebra I.

#### Geometry

Summer; 6 credits

Department: Mathematics

Prerequisite: Algebra I and Department Chair approval.

With Department Chair approval and Advisor and GOA Site Director approval, this summer course may be taken as an equivalent to a yearlong Geometry course. Students must pass with a B- or above in order to receive credit for this course and advance to Algebra II.

**Fast-Track Your Geometry Mastery:** This seven-week summer course provides a fast-paced journey through a full year's worth of high school geometry. With a focus on Euclidean geometry, you'll explore

key concepts like parallel lines, triangle congruence and similarity, quadrilaterals, polygons, and circles. Get ready to analyze lengths, areas, and volumes of both two- and three-dimensional figures, while also tackling transformations and introductory trigonometry. **Why Take This Course?** If you're eager to accelerate your math studies, this course offers a rigorous and engaging challenge. You'll develop logical thinking skills through arguments, deductions, theorems, and proofs, all while mastering a blend of 10 fitness components, exercise principles, training methods, theoretical and practical applications. With an intensive schedule (expect to dedicate 15-20 hours a week), you'll be well-prepared for future advanced math courses.

#### Precalculus

Summer; 0 credits.

Department: N/A. This course is not eligible for credit and may only be used for remediation purposes.

Prerequisite: Algebra 2 or its equivalent.

**Accelerate Your Advanced Math Concepts:** This sevenweek summer course will take you on a fast-paced journey through a full year of high school precalculus. With a focus on functions—transformations, domain and range, and visual representations—you'll also deepen your understanding of equivalence across numerical, graphical, and algebraic forms while mastering algebraic manipulation. You'll apply existing skills to new situations as you tackle projects involving polynomials, matrices, trigonometry, sequences, and series while analyzing situations, creating models, and developing solutions. The experience culminates in a final project where you'll apply everything you've learned to explore and present a complex scenario. **Why Take This Course?** Perfect for motivated students looking to accelerate their math studies, this rigorous course will prepare you for success in higher-level mathematics. Expect an intensive schedule (dedicating 15-20 hours per week) for a rigorous and engaging challenge.

## YEARLONG COURSES

### MODERN AND CLASSICAL LANGUAGES

*Students must complete the Greenhill requirement of level III in any single language. GOA language classes may be taken concurrently to expand a student's experiences in languages. These classes earn a language elective credit.*

#### Arabic I

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement

**Journey Through Language and Culture:** In this yearlong course, you'll immerse yourself in Modern Standard Arabic (MSA) and spoken dialects from the Levant, Egypt, and North Africa while exploring the rich cultural landscapes of the Arabic-speaking world. You will start with the basics of the Arabic writing system and progress to spontaneous conversations on topics like family, food, preferences, history, music, social media, and environment. You'll master everyday expressions, build listening and reading skills, and learn to form structured sentences—all with a focus on real-life conversation. **Why Take This Course?** Whether you're interested in international business, travel, or just fascinated by one of the world's most influential languages, this course will connect you to the heart of Arabic culture and language.

#### Arabic II

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement and Arabic Language through Culture I or permission from the instructor.

**Expand Your Conversation and Perspective:** Ready to take your Arabic skills further? Building on your Arabic foundation, this yearlong course guides you into more complex reading and speaking, allowing you to tell stories and even write full paragraphs in Arabic. Focusing on Modern Standard Arabic (MSA) and spoken dialects of Levant, Egypt, and North Africa, you'll immerse yourself in even more real-life conversations and interactive group projects that cover new cultural topics such as ordering food, discussing travel and the weather, and sharing your goals for the future. **Why Take This Course?** This course is your next step

toward fluency and a deeper understanding of Arabic-speaking cultures. By the end of this course, you'll be able to tell stories, describe the world around you, and hold meaningful conversations—connecting with peers from around the world.

### Arabic III

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement and Arabic Language through Culture II or permission from the instructor.

Master the Art of Conversation and Cultural Insight in Arabic: Elevate your Arabic skills to an advanced level through spontaneous spoken conversations on everyday topics like food, weather, and personal stories, both past and present. You'll deepen your fluency in Modern Standard Arabic (MSA) and spoken dialects of Levant, Egypt, and North Africa in this yearlong course. Plus, you'll bring Arabic culture to life by designing your own projects, creating a restaurant menu in Arabic, designing an animated cartoon in Arabic, analyzing Arabic TV commercials, reading children's stories, exploring Arabic music, films, and more. Why Take This Course? Whether for travel, future careers, or personal growth, this course will prepare you to connect with the Arabic speaking world confidently and meaningfully, through a blend of highly interactive activities and rich cultural exploration.

### Japanese Language through Culture I

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement.

Journey Through Language and Tradition: Immerse yourself in the fascinating world of Japanese culture and language with this full-year course. You'll learn the basics of Japanese grammar, vocabulary, and the writing systems Hiragana and Katakana, while also diving into cultural topics like literature, art, lifestyle, and the economy. Through engaging assignments and hands-on projects, you'll develop your speaking, listening, reading, and writing skills. Cultural dynamic and relevant discussions conducted in English will deepen your understanding of Japan along the way. Why Take This Course? This course provides a unique experience that seamlessly blends language learning with cultural appreciation. Perfect for beginners, this course will expand your global

perspective and set you on an exciting path toward mastering Japanese language and gaining a deeper appreciation for Japanese culture.

### Japanese Language through Culture II

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement and Japanese Language through Culture I or permission from the instructor.

Expand Your Voice and Perspective: Building on your foundational skills, this course will take your Japanese language abilities to the next level, enhancing your speaking, listening, writing, and reading skills while immersing you further into Japanese culture. You'll engage in interpreting authentic Japanese material, practicing communication through speaking and writing, and delivering impactful oral and written presentations. Each unit explores fascinating cultural topics, such as design and expression, ecology, entertainment, East meets West, harmony, and nature, with opportunities to explore your own interests. You'll learn advanced grammar forms typical of second- and third-year high school Japanese, progressing from simple sentences to more complex, coherent paragraphs. Why Take This Course? This course will empower you to share your voice, broaden your global perspective, and appreciate both yourself and others through meaningful language learning. By curating and creating course content through research and collaboration with global peers, you'll enjoy a highly engaging and immersive experience that blends language and cultural exploration.

### Japanese Language through Culture III

Full year; 6 credits

Department: Modern and Classical Languages

Prerequisite: Must have completed Greenhill language graduation requirement and Japanese Language through Culture II or permission from the instructor.

Communicate Naturally and Confidently: Take your language and grammar skills to new heights as you develop your ability to understand the nuances of the Japanese language. Through face-to-face conversations and recorded messages, you'll practice informal styles, gaining confidence in using the Plain Form in conversations with your peers and teacher. You'll also dive into authentic, real-world Japanese by curating and interpreting materials like TV commercials, news articles, movies, children's books, and cooking recipes. Why Take This Course?

This course will help you communicate naturally and effectively in Japanese while collaborating with peers and embracing a global perspective. It's perfect for students eager to refine their language skills and engage with Japanese culture in meaningful and practical ways.

## SEMESTER COURSES

### INTEGRATED STUDIES

*These classes count toward general graduation credits but do not satisfy any specific graduation requirement of any one department.*

#### Arts Entrepreneurship

Spring; 3 credits

Department: Integrated Studies

Create Your Future in the Arts: Ready to turn your creativity and passion for the arts into a thriving career? This course will help you develop real-world strategies for building a personal brand, networking, and launching a career in fields like design, music, and filmmaking. You'll learn directly from industry insiders, analyze successful (and not-so-successful) artistic ventures, and gain practical skills to kickstart your own arts business. Why Take This Course? Whether you dream of starting your own studio or becoming a creative entrepreneur, this course gives you the tools and insights to turn your artistic passion into a sustainable career.

#### Business Problem Solving

Summer, Fall, or Spring; 3 credits

Department: Integrated Studies

Tackle Real-World Challenges in Business: How does climate change impact supply chains? Are tariffs a threat or an opportunity? Is your company's cybersecurity strong enough? In today's fast-paced business landscape, problem-solving is essential. In this course, you'll analyze relevant, real world case studies from global corporations and innovative startups, and you'll collaborate with peers to develop creative solutions to challenges in operations, marketing, finance, sustainability, and more. Why Take This Course? If you see yourself as a future entrepreneur, CEO, or business consultant, this course is a valuable opportunity to build practical problem-solving and critical thinking skills, building entrepreneurial skills

along the way. By the end, you'll have a deep understanding of the pressing issues facing companies today and be prepared for a future in the dynamic world of business and leadership.

### **Discourse Across Difference**

Spring; 3 credits

Department: Integrated Studies

Navigate Today's Complex Issues: How do you engage in conversations when you don't agree? In today's interconnected world, complex social, political, and ethical issues demand thoughtful dialogue. This course will equip you with the skills to engage thoughtfully and effectively through structured conversations, debates, rhetorical analysis, and guided reflection. You'll learn to navigate challenging discussions and foster understanding across differences on pressing topics like technology's impact on privacy, environmental sustainability, and social justice reform. Why Take This Course? If you're interested in developing your voice in diverse or divided spaces, this course will help you engage in meaningful dialogues, even when faced with opposing viewpoints. By learning to evaluate different perspectives, ask insightful questions, and find common ground, you'll be prepared for responsible civic participation and thrive in our global, interconnected society.

### **Health & Fitness**

Fall or Summer; 3 credits

Department: Integrated Studies

Approval for PE credit requires Department Chair, Athletic Director, and GOA Site Director approval and will only be considered for special circumstances.

Chart Your Path to Lifelong Fitness: What factors influence our bodies as we strive to maintain an active and healthy lifestyle? In this course, you'll learn about movement phases, and athletic performance. You'll set personal fitness goals, track your progress, and engage in weekly exercises to target various areas of fitness. Through reflection and feedback, you'll understand how your efforts lead to improvement. The course ends with a student-led project where you will choose and explore topics that matter to you, such as nutrition, mental health in sports, exercise science, biomechanics, careers in sport, or community-based sports initiatives. Why Take This Course? This course will empower you to put what you learn into action, helping you develop and achieve personal health goals

that will positively impact your life. Whether you're an athlete, aspiring trainer, or simply passionate about exercise science, you'll gain the knowledge and skills needed to lead a healthy and active lifestyle. Additionally, if your school has a physical education or health requirement that you can't seem to fit into your schedule, this course is for you.

### **Introduction to Artificial Intelligence**

Summer, Fall, or Spring; 3 credits

Department: Integrated Studies

Explore AI's Impact on Our World: Artificial intelligence is everywhere, powering your favorite apps and influencing daily life in ways you may not see. How much do you really know about how generative AI works and how it's impacting our world? In this course, you'll dive into the history of AI research, from the early dreams of artificial general intelligence to the development of AI technologies like neural networks, machine learning, deep learning, generative AI, natural language processing, and facial recognition. You'll explore how AI systems are trained, understand the biases that arise from datasets, and learn about responsible AI principles like fairness, transparency, human-centeredness, and data privacy. Why Take This Course? If you're fascinated about how AI is shaping our future, this course will provide you with a well-rounded understanding of both the technical and ethical aspects of artificial intelligence. By the end, you'll be equipped with delivering compelling trial statements, you'll immerse the knowledge and skills to thoughtfully engage with AI's potential and challenges, preparing you to be an informed and responsible contributor in the field of computer science.

### **Introduction to Blockchain & Cryptocurrency**

Spring; 3 credits

Department: Integrated Studies

Discover the Tech Shaping Tomorrow: The skyrocketing value of Bitcoin and the rise of meme tokens have captured the world's attention, but there's more to cryptocurrency than market capitalization and dog-themed coins. This beginner-friendly course dives into the fascinating world of blockchain and cryptocurrency, exploring how we got here and where the technology might be heading. You'll learn how crypto markets work, examine real-world applications, and consider the potential future of crypto

through the perspectives of creators, consumers, and governments. Plus, you'll explore blockchain's far-reaching potential to revolutionize government, business, the arts, and more. Why Take This Course? If you're excited by the fast-paced world of crypto, this course is your gateway to understanding both the technology and its implications. Through engaging technologies, activities, and collaborative projects, you'll analyze how blockchain and cryptocurrency disrupt and shape various industries, preparing you to navigate and contribute to this transformative field.

### **Introduction to Branding & Marketing**

Summer, Fall, or Spring; 3 credits

Department: Integrated Studies

Build Brands That Stand Out: Ever wonder what gives your favorite brands their unique edge? In today's digitized world, we're constantly bombarded by ads and content, making it harder for brands to capture and keep our attention. This course reveals what it takes to build an effective brand that authentically connects with consumers and leaves a lasting impact. You'll explore the core elements of branding—from visual identity and advertising strategy to content marketing and the nuances of the customer journey. You'll also explore how addressing ethical, social, and environmental issues can influence a brand's success. Why Take This Course? If you're eager to learn the strategies behind successful brands, this course is for you. You'll apply marketing theories, go beyond the classroom to interview industry experts, and analyze modern case studies to become a skilled brand strategist. The course ends with a collaborative project where you'll design an impactful brand campaign for a mission-driven organization, gaining valuable realworld experience and insight for future careers or studies in business and marketing.

### **Introduction to Legal Thinking**

Summer, Fall, or Spring; 3 credits

Department: Integrated Studies

Think Like a Lawyer: Step into the shoes of a lawyer in this engaging, case-based course that offers much more than just an introduction. You'll dive into real legal cases, sharpening your research, persuasive writing, and public speaking skills as you navigate the complex challenges lawyers face every day. From crafting legal briefs and advising fictional

clients yourself in the rules and practices that define the profession. Along the way, you'll examine big ideas like justice, fairness, jurisprudence, and ethics, uncovering insights that will deepen your understanding of the legal world. Why Take This Course? If you're curious about the world of law, this course offers a hands-on, practical look at what it takes to be a lawyer. Ideal for aspiring attorneys or anyone fascinated by legal reasoning, it will sharpen your critical thinking and communication skills, preparing you for future legal studies or simply enhancing your ability to think and argue like a pro.

### **Problem Solving with Engineering and Design**

Summer, Fall, or Spring; 3 credits  
Department: Integrated Studies

Think Like an Engineer: Dive into the exciting intersection of science, technology, engineering, and mathematics by tackling meaningful, real-world challenges. In this project-based course, you'll develop essential engineering skills like design principles, modeling, and presentation techniques while leveraging a variety of computer hardware and software tools. Collaborating in teams, you'll design prototypes and explore practical applications of science and math to address issues in your home, community, and beyond. Why Take This Course? Step into the role of an engineer and discover the diverse ways they impact society. You'll work on projects that not only solve real-world problems but also open the door to potential career paths in science and math. Perfect for creative thinkers and problem-solvers, you'll develop the skills and experience needed to innovate and make a difference.

### **Race & Society**

Fall; 3 credits  
Department: Integrated Studies

Explore the Dynamics of Social Construct: What is race? Is it something we're born with, or is it an idea created by society? Is it an identity we perform? A privilege for some? And how do the ways people understand race vary around the world? In this course, you'll dive into these essential questions, examining race as a social construct that has a profound impact on societies and cultures. Through thought-provoking readings, films, and guest speakers from fields like history, sociology, anthropology, and literature, you'll research, reflect on, and discuss the intricate

dynamics of race and society across different times and places. This course is perfect for students who want to understand how social constructs shape our world. You'll be empowered to contribute thoughtfully to important conversations about race and culture in your other high school courses and beyond.

### **FINE ARTS**

*Courses labeled Fine Arts count toward graduation requirements and are applied to the (junior or senior) year the course is taken.*

#### **Architecture**

Summer, Fall, or Spring; 3 credits  
Department: Fine Arts

Design the Future, Shape the World: This is your chance to think like an architect, transforming abstract concepts into tangible spaces with other students from around the world. In this hands-on course, you'll master the fundamentals of architectural design—from exploring building materials and analyzing structures to creating 3D models and developing spatial awareness. Discover how architecture drives the evolution of contemporary styles and shapes our culture as you design innovative architectural solutions for real-world challenges. Your journey will end with a final project that showcases your unique vision and design process. Why Take This Course? Whether you're curious about architecture or see yourself as a future designer, this course will push you to think creatively and bring your ideas to life. By the end, you'll have a portfolio-ready project and the foundational skills to explore a future in design and architecture.

#### **Digital Photography**

Summer or Spring; 3 credits  
Department: Fine Arts

Note: Students must have access to a camera that allows for changing shutter speed and f-stop (lens aperture). The camera cannot be a cell phone, and it does not need to be an interchangeable lens camera. They must also have access to photo editing software of their choice (Adobe Lightroom, Photoshop, Pixlr X, RawTherapee), and Google Photo or other photo storage/sharing app of their choice.

Tell Stories Through the Lens: Are you ready to see the world through a new lens? In this digital photography course, you'll learn to capture moments, places, and people in a way that tells a story only you can tell. From exploring your neighborhood to capturing diverse cultural perspectives, you'll create powerful images that showcase your

creativity and refine your unique style. Along the way, you'll study the building blocks of photography, including composition and the exposure triangle, while experimenting with editing tools to bring your vision to life. You will examine the work of great photographers and experiment with techniques to turn ordinary scenes into extraordinary stories. Why Take This Course? Through discussions, critiques, and hands-on projects, you'll explore big questions like: What makes a photo unforgettable? How can an image communicate emotion? And how can photography address real-world issues? Whether you're just starting out or have experience behind the camera, this course will help you build a compelling portfolio that reflects your identity as a storyteller and artist. It's also a great foundation for further study in visual arts or careers where impactful imagery is key to communication.

#### **Filmmaking**

Fall; 3 credits  
Department: Fine Arts

Prerequisite: Students must have access to an HD video camera, tripod, or other stabilizing equipment, and editing software such as iMovie, Premiere Pro, etc.

This course is for students interested in developing their skills as filmmakers and creative problem-solvers. It is also a forum for screening the work of peers and providing constructive feedback for revisions and future projects while helping develop critical-thinking skills. The course works from a set of specific exercises based on self-directed research and culminates in a series of short experimental films that challenge students on both a technical and creative level. Throughout, we increasingly focus on helping students express their personal outlooks and develop their unique styles as filmmakers. We review and reference short films online and discuss how students might find inspiration and apply what they find to their own works.

### **ENGLISH**

*Courses labeled English count toward English electives.*

### **Creative Nonfiction Writing**

Summer or Fall; 3 credits  
Department: English

**Craft True Engaging Stories:** Are you a storyteller at heart? In this course, you'll learn how to transform real experiences into captivating narratives, all while strengthening core writing skills. You'll explore diverse forms of creative nonfiction—personal narratives, opinion pieces, profiles, and more. Along the way, you'll create a library of inspiring texts, consider publishing opportunities, and establish sustainable writing habits. Connect with a global community through video chats and online discussions, where you'll participate in a supportive workshop model, receive valuable feedback, and grow as a writer in today's exciting nonfiction genre. **Why Take This Course?** Emphasizing process over product, you'll develop your unique writer's voice, style, and storytelling skills in a collaborative environment. This is a course that can help you refine your writing process so that you can use those skills in any subject. Ideal for aspiring writers, journalists, or content creators, you'll learn to transform everyday life into powerful stories.

### **Fiction Writing**

Summer or Spring; 3 credits  
Department: English

**Find Your Voice in Fiction:** Love telling stories? In this course, you'll dive into the art of fiction writing, focusing on short stories, character development, and intricate plot-building. You will gain hands-on experience with the workshop model, learning how to provide and receive constructive peer feedback and discuss each other's work in a supportive online setting. You'll encounter masterful works by authors from around the 9GENDER & SOCIETY world. Through engaging in discussions and exchanging feedback, you will develop your unique writing style and sharpen your skills as both a writer and a critic. **Why Take This Course?** Whether you dream of becoming a novelist or screenwriter, or you simply enjoy storytelling, this course connects you with peers from diverse backgrounds and encourages you to share stories that capture both shared and unique life experiences. By the end, you'll have honed your voice and acquired the tools to craft

captivating stories, opening doors for further creative exploration.

### **HISTORY**

*Courses labeled History and Social Science count toward history electives.*

### **Abnormal Psychology**

Summer, Fall, or Spring; 3 credits  
Department: History

**Discover the Complexities of the Human Mind:** Ever wondered why society views certain behaviors "abnormal"? As you learn about Western abnormal psychology, you'll explore the complex forces behind human behavior by studying conditions like anxiety, depression, eating disorders, and schizophrenia. Through engaging readings, videos, thought-provoking discussions, and a student-led project centered on your local community, you'll dive into the symptoms, diagnoses, and responses to these disorders. You'll also examine how mental health is influenced by cultural differences and global perspectives, gaining insight into the stigma surrounding psychological disorders. **Why Take This Course?** You'll walk away knowing more about how the human brain can take unexpected paths and how challenging it can be to define "normal." You'll also develop a deeper empathy for those facing mental health challenges.

### **Applying Philosophy to Modern Global Issues**

Fall; 3 credits  
Department: History

**Think Like a Philosopher:** What would Socrates, Confucius, and Kant have to say about today's global issues? In this applied philosophy course, you'll uncover how great thinkers from many traditions and centuries tackled social and political challenges across the world—both successfully and unsuccessfully. You will challenge your perspective through an interdisciplinary approach, pulling in concepts, models, and methods related to history, journalism, literary criticism, and media studies. **Why Take This Course?** You'll do more than learn about what philosophers have written. You'll apply ideas to develop your own personal philosophy and apply it to analyze today's most pressing issues. By the end of the course, you'll be ready to spark positive change, whether in your community or on a global scale.

### **Capitalism: Past, Present, & Future**

Spring; 3 credits  
Department: History

**Understand the Economic System That Shapes Our World:** Is capitalism the source of society's problems or one of the grandest achievements in human history? In this thoughtprovoking course, you'll examine perspectives from both sides, exploring capitalism's components and impact on social, political, and economic systems worldwide. Through engaging case studies and historical examples, you'll dive into how capitalism has evolved and influenced societies. **Why Take This Course?** If you're interested in understanding the complexities of economic systems, this course will help you build your own ideas about capitalism. You'll apply your insights in a final project and presentation, proposing solutions to real-world issues—an important experience for anyone interested in economics, politics, or global studies.

### **Climate Action and Sustainability**

Fall; 3 credits  
Department: History

**Build a Just and Sustainable Future:** Explore the critical issues of climate change and its wide-reaching impacts on communities and ecosystems. In this course, you'll examine essential topics like climate justice, agriculture, wildfires, renewable energy, sea level rise, and invasive species—all through the lenses of equity and sustainability. Engage in hands-on projects to understand the causes and effects of climate change, dive into public policy and equity debates, and analyze how these issues shape the experiences of diverse populations around the world. Your journey will finish with a student-led project, creating an action plan for change in your community. **Why Take This Course?** If you're passionate about making a difference, this course climate challenges through well-informed activism. By the end, you'll be empowered to advocate for a sustainable and equitable future.

### **Developmental Psychology**

Fall or Spring; 3 credits  
Department: History

**Understand the Journey of Human Growth:** Why do we think, learn, and behave the way we do? In just a few years, humans transform from infants to individuals capable of complex thought, communication, and moral reasoning.

Through engaging readings, observations, case studies, and hands-on activities, this course will introduce you to the fascinating study of human development, focusing on significant physical, emotional, cognitive, and social changes from birth through adolescence. You'll explore key questions like heredity vs. environment, stability vs. change, and continuity vs. discrete stages of development. Why Take This Course? If you're captivated by how people learn, grow, and evolve, this course offers an in-depth look at how we become who we are. Perfect for aspiring educators, psychologists, or anyone intrigued by human behavior, you'll gain valuable insights into language acquisition, learning, and personality development from both Western and non-Western perspectives.

### **Entrepreneurship in a Global Context**

Fall or Spring; 3 credits  
Department: History

Turn Your Ideas Into Global Impact: How does an entrepreneur think? What skills are essential to stay competitive and relevant in today's fast-paced market? This course will push you to step beyond the classroom and into real-world environments to understand how global markets work. Collaborating with peers worldwide, you'll dive into essential topics like customer development, value propositions, brand strategy, and funding sources. Using the business model canvas, you'll build a viable framework and ultimately develop, refine, and present your own online startup pitch. Why Take This Course? This course provides a hands-on approach to building a business, teaching you to apply innovative, design-driven strategies and creative problem-solving skills. With real-world experiences in customer research, product design, and interviews with entrepreneurs, you'll gain the tools to turn an idea into a startup ready for the dynamic business world.

### **Gender & Society**

Spring; 3 credits  
Department: History

Explore Identity Across Cultures and Time: How does gender shape the world around us? This dynamic course uses the concept of gender to explore a wide range of current topics, from feminism and LGBTQ+ studies to popular culture and politics. You'll investigate how gender intersects with other social

identifiers like class, race, sexual orientation, culture, and ethnicity. Through engaging readings, thoughtful writing, and lively discussions, you'll analyze gender issues and reflect on how they have shaped both your experiences and those of your global peers. Why Take This Course? If you're passionate about understanding how gender influences society, this course offers a deep exploration of identity and intersectionality. You'll gain valuable insights into how gender affects social and political landscapes, making it perfect for anyone interested in social justice, cultural studies, or exploring diverse perspectives.

### **Genocide and Human Rights**

Spring or Fall; 3 credits  
Department: History

Prerequisite: This course contains content that may not be appropriate for students younger than 15 years old.

Learn From the Past to Protect the Future: Why does genocide happen, and how can societies prevent it? In this course, you'll explore some of the most significant tragedies of the 20th century, including the Holocaust and the Armenian, Cambodian, and Rwandan genocides. You'll analyze the role of the international community in responding to and preventing further genocide, with a focus on the Nuremberg Tribunals, as well as investigate ongoing human rights crises around the globe. Through engaging discussions, brief papers, and documentaries, you will gain a deeper understanding of global issues related to justice and humanity. Why Take This Course? You will engage in meaningful projects, such as developing strategies to address human rights violations in your community, and build the skills to analyze, reflect on, and contribute to solutions for these critical global issues. Perfect for students passionate about history, justice, and activism, this course will empower you to make a difference in shaping a more just and humane world.

### **International Relations**

Summer, Fall or Spring; 3 credits  
Department: History

Understand Global Conflict and Cooperation: Are China and the U.S. on a collision course for war? Can the Israelis and Palestinians reach a peaceful solution to a long-term conflict? Will North Korea launch a nuclear weapon? Can India and Pakistan find a way to share the subcontinent in peace? In this

course, you'll go beyond soundbites and daily news headlines to examine the context, causes, and consequences of today's most pressing global issues. Working alongside classmates from around the world, you'll learn strategies to prevent, mediate, and resolve conflicts, equipping you with the knowledge and skills to engage with global challenges thoughtfully and effectively. Why Take This Course? If you want to understand the complexities of international relations, this course offers an in-depth exploration of the causes and consequences of war, peace, and human rights through real-world case studies. For anyone interested in the forces that shape the global political scene, this course is a great foundation for further studies in geopolitics.

### **Introduction to Psychology**

Summer, Fall, or Spring; 3 credits  
Department: History

Understand the Human Mind: What does it mean to think like a psychologist? In this course, you'll explore three main perspectives—behavioral, cognitive, and sociocultural—to develop a well-rounded understanding of the human mind and behavior. You'll also examine how psychologists put what they know into practice through research methods, ethics, and real-world applications. Engage in hands-on projects, like analyzing adolescent psychology and creating a case study on depression. The course wraps up with a dive into positive psychology, giving you tools to understand how to live mentally healthy and fulfilling lives. Why Take This Course? Curious about how the human mind works? Throughout the course, you'll engage in collaborative projects and activities and learn from peers around the world. You'll also hone your research and critical-thinking skills. Perfect for anyone interested in the science behind behavior, this course will help you build psychology skills that are valuable to both academic and everyday life.

### **Investing I**

Summer, Fall, or Spring; 3 credits  
Department: History

This course is a prerequisite to Investing II at GOA.

**Make Smart Financial Decisions:** Step into the shoes of an investor, using real-world tools, theories, and decisionmaking practices to make smart financial choices. You'll explore key finance concepts, like valuation and risk management, and apply them to portfolio management, venture capital, and social investing. You'll learn how to manage and grow an investment portfolio by simulating investments in stocks, bonds, and options. Take on the role of a venture capital investor, analyzing startups and forecasting their potential before they go public, as well as exploring social investing to see how finance can be a powerful force for positive change. **Why Take This Course?** With insights from finance experts and hands-on experience, you'll leave the course with a simulated investment portfolio and the skills to thoughtfully assess financial risks and rewards. Whether you're an aspiring investor, entrepreneur, or someone curious about global financial markets, this course will prepare you to navigate the complex world of finance with confidence.

### **Investing II**

Summer, Fall, or Spring; 3 credits

Department: History

Prerequisite: Investing I

**Master Diverse Investment Strategies:** Deepen your understanding of smart investment practices and explore finance concepts across four key contexts: fixed-income investments, foreign exchange and cryptocurrency, commodities, and real estate. After an introduction to behavioral finance theories, you will simulate scenarios to strategically expand your equity portfolio. Discover how to hedge risk with bonds, navigate the volatility of forex and crypto markets, grasp the economic impact of commodity prices, and explore strategic approaches to real estate investing. **Why Take This Course?** Guided by insights from financial experts, you'll develop your own strategies for identifying value and taking calculated financial decisions. Perfect for anyone aiming to advance their investment skills or study economics and business, you'll gain a sophisticated understanding of portfolio management and the tools needed to thrive in today's dynamic global financial markets.

### **Macroeconomics**

Fall or Spring; 3 credits

Department: History

**Understand National and Global Economies:** Have you ever wondered what influences make a nation's economy tick? In this course, you'll explore key concepts like gross domestic product, unemployment, and inflation to understand how national economic activity is measured, along with the strengths and limitations of these statistics. You'll also gain an understanding of the complexities of international trade and exchange rates, and learn about monetary and fiscal policies used to influence economic activity. **Why Take This Course?** Ideal for students interested in economics, this course will strengthen your knowledge of how economies function and prepare you to think critically about global economic issues. By conducting an in-depth investigation of a national economy beyond your own, you'll gain practical insights and be prepared to analyze and propose solutions for real-world economic challenges.

### **Microeconomics**

Summer or Fall; 3 credits

Department: History

**Understand Market Dynamics:** What drives the economic choices we make? Explore how consumers and producers interact to form markets and learn about the reasons behind government intervention in those markets. You'll deepen your understanding of core microeconomic concepts through engaging discussions, debates, problem-solving activities, and reflective writing. You'll apply what you've learned by visiting a local production site and crafting a report that analyzes market principles in action. **Why Take This Course?** Gain a practical understanding of how markets operate and how economic decisions affect your everyday life. Thinking like an economist, you'll become more informed and empowered as a consumer, worker, future voter, or producer. This course is perfect for anyone eager to understand the economic forces that shape our world.

### **Positive Psychology**

Fall; 3 credits

Department: History

**Examine the Power of Belief:** Religion is one of the most influential forces in today's world, yet it's often misunderstood. What exactly is religion, and how does religious identity shape the way we understand ourselves and the world? Can learning more about religion make

us more engaged and effective members of society? In this course, you'll learn from case studies and explore how religious identity intersects with systems of power like race, gender, class, sexual orientation, and ethnicity. **Why Take This Course?** Through thought-provoking material from history, sociology, anthropology, and psychology, you'll gain a deeper understanding of how religion and society are intricately connected. Perfect for students eager to explore the complexities of religious identity and its impact on contemporary issues, this course will prepare you to engage thoughtfully and knowledgeably with the diverse world around you.

### **Prisons and the Criminal Justice Systems**

Fall or Spring; 3 credits

Department: History

**Balance Rights and Power:** What determines who goes to prison and for how long, and how do legal systems shape justice—or fail to? In this course, you will gain a practical understanding of legal systems while confronting mass incarceration as a pressing legal, ethical, and societal challenge. You will also explore the various stages of the U.S. criminal justice system—arrest, prosecution, adjudication, sentencing, and imprisonment—and dive into key topics like policing practices, prosecutor reform, sentencing guidelines, and the role of AI in justice. **Why Take This Course?** Through research, legal reasoning, and advocacy, you'll engage in meaningful projects that ask you to communicate with specialized audiences, such as juries, and investigate local legal systems. This course will challenge you to critically analyze justice systems and contribute to realworld solutions. Ideal for students interested in law, ethics, or social justice, this course will equip you with the tools to analyze and advocate for meaningful reforms in justice systems worldwide.

### **Religion & Society**

Spring; 3 credits

Department: History

**Examine the Power of Belief:** Religion is one of the most influential forces in today's world, yet it's often misunderstood. What exactly is religion, and how does religious identity shape the way we understand ourselves and the world? Can learning more about religion make us more engaged and effective members

of society? In this course, you'll learn from case studies and explore how religious identity intersects with systems of power like race, gender, class, sexual orientation, and ethnicity. Why Take This Course? Through thought-provoking material from history, sociology, anthropology, and psychology, you'll gain a deeper understanding of how religion and society are intricately connected. Perfect for students eager to explore the complexities of religious identity and its impact on contemporary issues, this course will prepare you to engage thoughtfully and knowledgeably with the diverse world around you.

### **Social Psychology**

Fall or Spring; 3 credits  
Department: History

**Decode Human Influence:** Are your thoughts, feelings, and actions truly your own, or are they shaped by the people around you? Social psychology explores how the real, imagined, or implied presence of others influences what we think, feel, and do. From understanding why we obey stop signs at intersections when no one is around or why we buy certain products to exploring dramatic phenomena like mass discrimination or extreme group behavior, you will examine the principles that shape human behavior in this course. You'll explore, investigate, and apply key concepts in social psychology, culminating in a public exhibition of your own self-designed research project on a topic that interests you. Why Take This Course? Think like a social psychologist as you analyze topics such as prejudice, persuasion, conformity, altruism, relationships, and group dynamics. Perfect for anyone curious about human behavior, this course will help you build critical skills in inquiry, experimentation, and analysis, preparing you to understand and interpret the forces that influence us every day.

## **DESIGN & INNOVATION**

*All courses labeled Design & Innovation count toward the graduation requirement.*

### **Computer Science I: Computational Thinking**

Summer, Fall, or Spring; 3 credits  
Department: Design & Innovation

**Problem-Solve in a Digital World:** Unlock the power of solving problems, designing systems, and understanding human behavior in this beginner-friendly course. You'll learn to think like a computer scientist, developing skills that go beyond programming and apply to across fields. Starting with the basics of computer science, you'll learn how to read code and pseudocode as well as develop strategies for debugging programs—all without prior programming experience. Why Take This Course? Gain a foundational understanding of computer science and its real-world applications for both programmers and non-programmers. By the end, you'll have essential computational thinking skills to approach complex problems with clarity and strategy, setting you up for success in future computer science courses and beyond.

### **Computer Science II: Analyzing Data with Python**

Summer, Fall, or Spring; 3 credits  
Department: Design & Innovation  
Prerequisite: Computer Science I: Computational Thinking or its equivalent; Department Chair approval required

**Turn Data Into Insight:** Gain hands-on experience with the Python programming language as you learn to read, analyze, and visualize real-world data. Using Python's powerful data structures and clear syntax, you'll work with large, messy datasets—just like those in scientific computing. Discover how Python makes data analysis accessible and see firsthand why it's one of the most popular tools in fields like biology, engineering, and statistics. Why Take This Course? If you're interested in data-driven fields, this course will give you essential Python skills to tackle complex datasets. By the end, you'll be able to turn raw data into meaningful insights, preparing you for further studies in scientific research, data science, and beyond.

### **Computer Science II: Game Design and Development**

Summer or Spring; 3 credits  
Department: Design & Innovation  
Prerequisite: Computer Science I: Computational Thinking; Department Chair approval required

**Create Your Own Games:** Do you love to play video games? Ever wanted to make your own? Explore what makes a game exciting and how game developers create games from scratch. In this immersive and hands-on course, you'll start creating your own games from the ground up by tackling design challenges and refining the game's theme and structure. Gain experience with Unity, a professional game development tool, as you build games using graphics, sounds, and effects and control events and behaviors with the C# programming language. Why Take This Course? For anyone interested in game development, this course will equip you with the skills to turn your ideas into playable games. Collaborate with teammates across the world to brainstorm, design, and develop games in response to unique challenges, building your skills in communication, project management, and creative problem-solving. By the end, you'll have a portfolio of game projects and a strong foundation for future studies in game design and coding.

### **Computer Science II: JAVA**

Summer or Spring; 3 credits  
Department: Design & Innovation  
Prerequisite: Computer Science I: Computational Thinking or its equivalent; Department Chair approval required

**Build Intelligent Systems:** Ever wonder how your favorite apps and websites run so smoothly? In this course, you'll learn to write programs in Java—the programming language that forms the backbone of countless web applications, powers eCommerce and government websites, drives the Android operating system, and fuels essential tools in the financial world. Through interactive labs and hands-on projects, you'll master Java's core syntax and develop smart, efficient systems using object-oriented design principles. Why Take This Course? You'll be able to create your own programs, incorporate dynamic graphics and animations, and build a solid foundation in computer science—an essential step for future studies or a career in tech.

### **Cybersecurity**

Summer, Fall, or Spring; 3 credits

Department: Design & Innovation  
Department Chair approval required

**Safeguard the Digital World: Cybercrime** is on the rise, and this is your chance to be part of the solution. Go beyond the basics of cybersecurity, as you explore the inner workings of computer components, network design, DNS, TCP/IP, and how cybercriminals exploit both technology and human behavior to breach systems. Examine ciphers, encryption, data security, and malware anatomy, while also considering the complex balance between privacy and tracking. You'll emerge with the expertise to defend both personal and organizational data, equipped with knowledge in data recovery, enterprise security, and the latest trends in cybersecurity. **Why Take This Course?** If you're driven to protect the digital world, this course will provide you with the critical skills needed to navigate and secure the digital landscape, preparing you for a future in cybersecurity or simply empowering you to safeguard our interconnected world.

### Data Visualization

Fall; 3 credits  
Department: Design & Innovation  
Department Chair approval required

**Turn Numbers Into Narratives:** In a world flooded with data, visualizations cut through the noise to reveal meaning. This course teaches you to collect, organize, interpret, and effectively communicate massive amounts of information. You'll master data wrangling in spreadsheets, harness the power of charts, and learn to spot both effective and misleading visuals. Using principles from information science, you'll create your own compelling visualizations using tools like Datawrapper, Tableau Public, and Python. **Why Take This Course?** If you want to transform raw data into powerful insights, this course will help you develop the essential skills needed to create clear, informative visuals. Perfect for aspiring data analysts, journalists, or anyone looking to communicate statistics with impact, you'll emerge ready to use data to inform, persuade, and drive decisions.

### Graphic Design

Fall or Spring; 3 credits

Department: Design & Innovation  
Department Chair approval required

**Unleash Your Visual Voice: What makes a message persuasive and compelling? How do audiences interpret and make sense of information?** This course dives into the powerful relationship between information and influence from a graphic design perspective. You'll gain the skills to create impactful visual content, exploring design principles, infographics, social media, digital search strategies, social activism, and multimedia storytelling. Through a case study and design-based approach, you'll work on individual and collaborative projects, content curation, writing, peer critiques, and online presentations. **Why Take This Course?** If you're interested in art, design, marketing, or visual storytelling, this course will empower you to design and prototype passion-driven communication projects driven by your interests. By the end, you'll have a portfolio of creative work and a solid understanding of how design shapes the way we share and interpret information.

## MATHEMATICS

*These courses count as Math elective credits but cannot be used to fulfill any part of our existing sequential course requirements.*

### Game Theory

Fall or Spring; 3 credits.  
Department: Mathematics

**Solve Real-World Problems Like a Mathematician:** What can mathematical models teach us about decisionmaking? This course will show you how dilemmas and conflicts—ranging from international diplomacy to sports scheduling—can be approached as mathematical games. You'll analyze real-world events in fields like political science, anthropology, philosophy, economics, and even popular culture through two-person zero-sum games, two-person non-zero-sum games, sequential games, multiplayer games, linear optimization, and voting theory. **Why Take This Course?** If you love math, logic, or strategic thinking, this course will give you the tools to analyze and solve complex problems using mathematical models. It's perfect for future studies in mathematics, economics, or any field where strategic decision-making is key, giving you

a deeper understanding of how to approach intricate challenges logically and effectively.

### Linear Algebra

Fall or Spring; 3 credits  
Department: Mathematics  
Prerequisite: Geometry and Algebra 2 or equivalents

**Transform Math Into Meaning:** Explore the algebra of vector spaces and matrices through real-world applications in computer graphics and social network analysis. Starting with how images and objects are transformed in the plane and space, you will gain hands-on experience with core concepts. You'll dive into the practical side of math by modeling social networks and analyzing connections on platforms like Facebook and Google. **Why Take This Course?** Perfect for students interested in mathematics, computer science, or data analysis, this course will help you build problem-solving skills while providing a strong foundation in linear algebra with engaging, real-world applications.

### Multivariable Calculus I: Vector and Differential Calculus

Fall; 3 credits  
Department: Mathematics  
Prerequisite: A solid foundation in single-variable calculus, including integration techniques such as trigonometric substitution, integration by parts, and partial fractions. Completion of the AP Calculus BC curriculum with a score of 4 or 5 on the AP Exam would be considered adequate preparation.

**Explore the Math of Higher Dimensions:** Embark on an exciting journey into multivariable calculus through vector and differential calculus, setting the groundwork for advanced study in three-dimensional space. You'll begin with parametric equations, polar coordinates, and space curves to explore movement and paths in higher dimensions. Then you'll progress into three-dimensional coordinate systems, mastering vectors, dot and cross products, and equations of lines and planes in space. Dive deeper into vector functions, derivatives, integrals, arc length, and curvature to quantify the behavior of curves in space. Then you will be ready to analyze functions of several variables, using tools like limits, continuity, partial derivatives, and the gradient vector, and you'll apply these skills to optimization problems, including constrained optimization with Lagrange multipliers. **Why Take This Course?** Do you want to push your understanding of mathematics even further?

Through collaborative projects and the use of a computer algebra system (CAS), you'll connect mathematical concepts to real-world applications and develop fluency in tackling multi-dimensional challenges. Perfect for students passionate about advanced mathematics, this course provides a strong foundation for further studies in calculus, physics, engineering, or applied sciences.

### **Multivariable Calculus II: Integral Calculus**

Spring; 3 credits

Department: Mathematics

Prerequisite: Successful completion of Multivariable Calculus I: Vector & Differential Calculus, and the equivalent of a university year of single-variable calculus with integration techniques, including trigonometric substitution, integration by parts, and partial fractions. Completion of the AP Calculus BC curriculum with a score of 4 or 5 on the AP Exam would be considered adequate preparation.

**Master Integrals, Theorems, and Beyond:** In this advanced course, you'll dive deeper into multivariable calculus with a focus on integral calculus in multiple dimensions. Start with double integrals over rectangles and irregular regions, leveraging polar coordinates for applications like surface area, then advance to triple integrals in cylindrical and spherical coordinates. You'll also apply the change of variables technique to simplify complex integrations across various coordinate systems and explore vector fields, line integrals, Green's Theorem, curl, divergence, and parametric surface calculus. The course ends with surface integrals, leading to Stokes' Theorem and the Divergence Theorem—powerful tools in mathematics and physics. **Why Take This Course?** Using a computer algebra system (CAS), you'll visualize problems and enhance your understanding through collaborative projects and real-world applications. Ideal for aspiring mathematicians, physicists, or engineers, this course prepares you to tackle complex, multi-dimensional problems with confidence and precision.

### **Number Theory**

Fall; 3 credits

Department: Mathematics

Prerequisite: Precalculus and above, as well as a desire to do rigorous mathematics and proofs

**Discover the Math Running Digital Security:** Once considered the most abstract and least practical area of mathematics, number theory is now essential to our everyday digital world: every second, millions of secure internet transmissions rely on number theory for encryption. In this course, you'll explore the

world of mathematical reasoning and proof, learning the tools needed to understand the RSA algorithm—the backbone of global internet security. You'll also invent your own encryption schemes and encounter games that use number theory. Alongside practical applications, you'll get a taste of the rich history of this subject, from legendary mathematicians to the proof of Fermat's Last Theorem (a famous problem solved just 20 years ago after 350 years of effort). **Why Take This Course?** You'll gain a solid foundation for upper-level university mathematics or theoretical computer science while understanding how number theory is applied in real-world encryption. This course makes mathematical reasoning and proof accessible and engaging, blending elegant concepts with practical uses. Ideal for students fascinated by math, cryptography, or computer science, you'll discover how timeless mathematical ideas power our modern, connected world.

### **Personal Finance**

Summer, Fall, or Spring; 3 credits

Department: Mathematics

**Manage Money to Make an Impact:** Ready to plan for your financial future? In this course, you'll explore financial responsibility and social consciousness, diving into personal finance topics like budgeting, credit scores, career and earning potential, insurance, real estate, investments, retirement savings, charitable giving, and taxes. Through experts with diverse perspectives and simulating real-life financial scenarios, you'll learn to weigh the costs and benefits of your decisions and build confidence in managing your money. This course prepares you to manage your finances wisely while thinking about how your financial decisions can have a positive impact on the world around you. Perfect for anyone looking to build a solid financial foundation and make informed, socially conscious financial choices, this is your pathway to understanding the essentials of personal finance.

## **SCIENCE**

*Courses labeled Science count toward*

*elective science.*

### **Biochemistry: Medicine, Drugs & Addiction**

Fall; 3 credits

Department: Science

Prerequisite: Students enrolling in this course should have taken or should be concurrently enrolled in Chemistry

**Unlock Medicine and Drug Design:** Discover the fascinating science behind medicine and drug interactions, exploring how drugs impact the human body at the molecular level. You'll dive into the chemistry and biology behind drug design, effectiveness, and safety; learn how drugs interact with molecules, such as receptors and enzymes, to create therapeutic effects; and tackle complex topics like tolerance, addiction, and withdrawal. You'll also investigate the processes of drug testing, legalization, and regulation, gaining a well-rounded view of the pharmaceutical world. **Why Take This Course?** A must for aspiring healthcare professionals, pharmacists, or biochemists, this course will give you a deep understanding of drug mechanisms and development. You'll walk away with insights into the science of healing and the effects of drugs on the body, setting you up for future studies and a career in healthcare and the sciences.

### **Bioethics**

Summer, Fall, or Spring; 3 credits

Department: Science

**Navigate the Ethical Questions of Medicine and Science:** How do we know what's right and wrong in medicine, public health, and life sciences? In this course, you'll explore some of today's most pressing ethical dilemmas that significantly impact the medical field. Through engaging debates on topics like the "right to die," vaccination policies, organ transplants, genetic technology, and animal research, you'll learn how to discuss differing views with respect. Innovative research projects and interactive discussions will help you develop critical-reasoning skills and think deeply about how we balance individual rights, societal needs, and scientific advancement. The course ends with a deep dive into a bioethical issue of your choosing, helping you understand the crucial role bioethics plays in shaping the future. **Why Take This Course?** If ethical questions in health and science spark your curiosity, this course will sharpen your critical thinking and

broaden your perspective on complex issues. You'll gain the skills to navigate real-world challenges and form your own stance on pivotal bioethical debates—an invaluable foundation for future studies and careers in medicine, science, or ethics.

### **Global Health**

Fall; 3 credits  
Department: Science

**Help Solve the World's Health Challenges:** What makes people sick? Why do health disparities persist both locally and globally? In this course, you'll explore the social and political factors that influence health and the biggest challenges in global health today. Using an interdisciplinary approach, you'll engage in analytical reading and writing, research, and collaborative projects. You'll examine case studies, present your findings, and gain a deeper understanding of the biology of diseases, the social determinants of health, and the roles of public and private organizations. Additionally, you'll learn how global health statistics shape our understanding of health inequities and critically analyze how the distribution of healthcare resources and access impact health equity worldwide. **Why Take This Course?** Thinking about a career in healthcare or medicine? If you're passionate about improving health outcomes and addressing disparities, this course will equip you with the tools to understand and address complex global health issues. You'll learn the importance of understanding and respecting different cultures when planning health programs and explore the impact of resource distribution, preparing you to contribute thoughtfully to the field of global health and drive positive change.

### **Introduction to Organic Chemistry I**

Fall; 3 credits  
Department: Science

**Prerequisite:** Students should have taken the equivalent of one year of general chemistry prior to taking this course.

**Master the Building Blocks of Life:** Prepare for university level organic chemistry with this in-depth course focused on the mechanisms and reactions that form the basis of all living things as well as the principles of carbon chemistry. You'll discover the magnificent world of complex molecules, their properties, and reactions through real-world applications. This course is packed with engaging hands-on

activities that will equip you with essential skills to address today's most pressing scientific challenges. You'll learn to predict electron movement for organic reactions, understand molecular structures, bond angles, shapes, polarity, and resonance, and master the fundamentals of organic nomenclature. **Why Take This Course?** If you're a future pre-health student or science major, this course is designed to build your problem-solving and pattern recognition skills, preparing you to confidently speak the language of organic chemistry. It's the perfect foundation for success in one of the most challenging yet vital subjects in college science programs. This course is the first in a two-part series. Organic Chemistry I is offered in Semester 1 and Organic Chemistry II is offered in Semester 2. While it is possible to take only this first course, we recommend signing up for both semester courses.

### **Introduction to Organic Chemistry II**

Spring; 3 credits  
Department: Science  
**Prerequisite:** Introduction to Organic Chemistry I

**Solve Global Challenges With Carbon Chemistry:** What should we think about when creating materials so they don't hurt the environment when we throw them away? What types of energy can we use that are more sustainable and can help us move away from relying on fossil fuels? These are just some of the critical questions you'll tackle as you continue your journey into the fascinating world of carbon chemistry, deepening your understanding of the organic world and its impact on global challenges. You'll expand your knowledge of the language of organic chemistry as you learn about additional functional groups, classes of organic molecules, and advanced nomenclature and reaction types. You will also dive into topics like sustainable materials, medical technology advancements, and the creation of better energy sources. With a focus on the important structures of organic molecules, you'll master predicting chemical outcomes from specific precursors and gain insights into the chemistry that impacts our everyday lives. **Why Take This Course?** If you're passionate about using science to address global problems and appreciate the interconnectedness of the organic world, this course will empower you with

a greater understanding of polymerization, material science, and spectroscopy. Perfect for aspiring chemists, engineers, medical professionals, or anyone eager to make a meaningful impact through chemistry, you'll leave with the skills and knowledge to contribute to a more sustainable and innovative future.

### **Medical Problem-Solving I**

Summer, Fall, or Spring; 3 credits  
Department: Science

**Understand Market Dynamics:** What drives the economic choices we make? Explore how consumers and producers interact to form markets and learn about the reasons behind government intervention in those markets. You'll deepen your understanding of core microeconomic concepts through engaging discussions, debates, problem-solving activities, and reflective writing. You'll apply what you've learned by visiting a local production site and crafting a report that analyzes market principles in action. **Why Take This Course?** Gain a practical understanding of how markets operate and how economic decisions affect your everyday life. Thinking like an economist, you'll become more informed and empowered as a consumer, worker, future voter, or producer. This course is perfect for anyone eager to understand the economic forces that shape our world.

### **Medical Problem-Solving II**

Fall or Spring; 3 credits  
Department: Science  
**Prerequisite:** Medical Problem-Solving I

**Explore Global Medicine and Social Justice:** Building on the problem-based approach of Medical Problem Solving I, this course will take you deeper into the world of global medicine, medical ethics, and social justice. You'll collaboratively analyze medical cases from around the world and your own community, uncovering the challenges patients face due to limited healthcare access, systemic discrimination, and the unequal distribution of medical resources. Tackle real-world medical dilemmas and engage in a culminating project, where you'll research a local health issue, go beyond the classroom to consult local sources, and propose actionable solutions for positive change. **Why Take This Course?** If you're

passionate about medicine, health, and social justice, this course offers a unique opportunity to explore these topics through a global and ethical lens. By examining complex healthcare issues and proposing ideas for change, you'll develop a deeper understanding of the challenges and intricacies of the medical world, empowering you to advocate for better health outcomes in your community and beyond. Perfect for aspiring healthcare professionals and anyone driven to make a meaningful impact.

### **Neuropsychology**

Fall or Spring; 3 credits

Department: Science

**Understand the Brain-Behavior Connection:** Have you ever wondered how the anatomy of the brain shapes behavior? Discover the fascinating connections as you learn about neural function as well as cognitive and behavioral disorders. Explore how neural communication works and examine how environmental factors, like smartphone use, impact the nervous system and human behavior. You'll have the chance to choose research subjects that interest you and dive further into topics like Alzheimer's disease, addiction, neuroplasticity, and neurodegenerative diseases as you share your findings with your peers in creative ways. **Why Take This Course?** If you're curious about the science behind behavior and brain function, this course offers a captivating exploration into the workings of the human mind. By analyzing contemporary and historic neuropsychological case studies, you'll learn how to apply your knowledge to real-world scenarios. Ideal for students interested in psychology, neuroscience, or healthcare, this course will provide you with a strong foundation in understanding the neurological reasons behind human behavior.



# Coming to Greenhill

## Driving Directions to Campus

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### MAIN ENTRANCE

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#### For Interviews, Testing, and Group Observations

##### From the Dallas Tollway (North/South):

- Exit Spring Valley Road
- West on Spring Valley Road
- Continue West on Spring Valley Road, crossing Midway Road
- Greenhill School Main Entrance is on the right
- Proceed to Visitor Parking Lot

##### From 635,LBJ (East/West):

- Exit Midway Road
- North on Midway Road to Spring Valley Road
- West on Spring Valley Road
- Greenhill School Main Entrance is on the right
- Proceed to Visitor Parking Lot

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### NORTH ENTRANCE

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#### For Admission Previews and Tours

##### From the Dallas Tollway (North/South):

- Exit Spring Valley Road
- West on Spring Valley Road
- Right on Midway Road
- Left on Hornet Road into Greenhill School
- Proceed to Parking Lot

##### From 635,LBJ (East/West):

- Exit Midway Road
- North on Midway Road
- Continue North on Midway Road, crossing Spring Valley Road
- Left on Hornet Road into Greenhill School
- Proceed to Parking Lot



It is the policy of Greenhill School to administer its educational programs, including admission and financial aid, without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national or ethnic origin, or disability.

# Greenhill

— S C H O O L —

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[WWW.GREENHILL.ORG](http://WWW.GREENHILL.ORG)