MISSION STATEMENT

Princeton Day School nurtures the mind, the body, and the character of each student. In academics, athletics, the arts, and service, we celebrate the pursuit of individual excellence and the spirit of collaboration that binds us together as a community. We seek diversity of cultures, views, and talents to promote the intellectual growth and moral development of our students.

Our rigorous and broad PK-12 program is designed for motivated and academically talented students. We emphasize both creative and critical thought and their clear expression. Supported by an exceptional faculty and a cooperative partnership of school and home, our students discover the joy of learning. They explore their interests, cultivate enduring relationships with teachers and peers, take risks, and thrive.

Integrity, respect, and compassion are essential to the school’s mission. Our students leave Princeton Day School well equipped for college and beyond; prepared to act knowledgeably, to lead thoughtfully, to share generously, and to contribute meaningfully.

PHILOSOPHY OF THE PROGRAM

As a college preparatory school, PDS sets a high standard of academic excellence, which includes independence of thought. It offers rigorous training in core skills of verbal and quantitative reasoning and self-expression. We seek students of character and promising intellect who are capable of responding to this challenge. Our broad and innovative curriculum is complemented by our attention to the individual student and by our commitment to recognizing and supporting differences in learning styles.

ACADEMIC GUIDELINES AND PROCEDURES

DIPLOMA REQUIREMENTS
To earn a diploma, a student must successfully complete the equivalent of 18 full-year academic courses during the upper school years. Each year-long major is worth one credit; each year-long minor is worth one half of a credit. These credits must include:
- 4 credits of English
- 3 credits of mathematics
- 3 credits of history, including American History in 10th grade and one credit of religion
- 2 credits of core (laboratory) science
- 2 credits of one modern or classical language
- 1 credit (1 year-long major or 2 year-long minors) in fine or performing arts
- 3 credits of electives (3 years of major courses or 2 majors and 2 minors)

Also required for all students are:
- 1 credit (6 terms) of physical education/athletics, including 1 semester of Health (usually taken in 10th grade)
- 50 hours of community service, which should be completed by September of the senior year
- successful completion of a senior independent project

STUDENT COURSE LOAD
These requirements define a minimum upper school program and are designed to allow flexibility for students with special interests. Students generally take five majors and one or two minors; a student must be enrolled in at least four majors. Six majors is an exception and requires the permission of the advisor, college guidance, and the head of upper school.

DIPLOMA/CREDIT EXCEPTIONS
With prior approval of the Committee of Department Chairs, the head of upper school, the student’s advisor, parents and the department when applicable, a student may:

1. Receive a waiver of a diploma requirement if the department involved rules that the student has achieved a level of proficiency commensurate with the credit requirements.
2. Complete the diploma requirements and graduate at the end of three years in the upper school. Such a student should submit plans to the Committee of Department Chairs by December of the sophomore year. A student who leaves PDS at the end of the junior year without having completed graduation requirements may later petition for a diploma on completion of the equivalent of those requirements.
3. Receive recognition (but not credit) for academic work at other schools, colleges or summer schools. No outside work may be substituted for a graduation requirement.
4. Receive credit for independent work and, in rare cases, substitute such an accredited independent program for some portion of the course requirements defined above.
5. Residency requirement. A student, who is accepted for tenth or eleventh grade, must stay for two years to receive a PDS diploma. A student accepted for the twelfth grade, who has completed all PDS requirements, may be eligible to receive a PDS diploma.

COURSE WITHDRAWAL
The school reserves the right to withdraw any course for which there is insufficient enrollment.

PASS/FAIL OPTIONS
Any eleventh or twelfth grade student who is taking a fifth course that is not a requirement for graduation has the option of taking this course on a pass/fail basis. In addition, any student may opt to take an art minor pass/fail once the graduation requirement is fulfilled. The decision to exercise this option must be made before the end of the fourth week of classes.

ADVANCED PLACEMENT COURSE GUIDELINES
Many of the departments offer Advanced Placement (AP) courses, which have curriculum guidelines set by the College Board, entailing a level of commitment and rigor appropriate to a college level course and culminating in a three-hour national exam. Each department has determined the criteria by which a student may qualify to enroll in a given AP course. The school makes sure that this challenge is a correct match by consulting the teacher, department chairs, and advisors, who verify that the student meets the criteria for entering the course. Not all students are eligible or appropriate for AP classes, and the school reserves the right to make that decision. In order to honor the integrity of the AP program, a student who enrolls in an AP course must sit for the AP exam. Following the AP exam, a senior will be excused from the class to focus on his/her senior project, while underclassmen must continue in the course until the end of the year. Students are required to attend all of their classes on the day of their AP exams, but they are allowed to be unprepared for those classes without penalty. A student who has a morning exam and leaves early or who has an afternoon exam and arrives late will be treated as having an unexcused absence.
# TABLE OF CONTENTS

## COURSE DESCRIPTIONS

- English .................................................................................................................. 1
- History ................................................................................................................... 4
- Classical and Modern Languages ........................................................................ 6
- Mathematics ........................................................................................................... 9
- Computer Science ................................................................................................. 11
- Science .................................................................................................................. 11
- The Arts ................................................................................................................ 13
  - Visual & Design Arts .......................................................................................... 13
  - Studio Art (Drawing, Painting, Multimedia) ..................................................... 13
  - Ceramics ........................................................................................................... 14
  - Photography ....................................................................................................... 14
  - Architecture ..................................................................................................... 14
  - 3D Design Studio ............................................................................................. 15
- Performing Arts .................................................................................................... 15
  - Dance ................................................................................................................ 15
  - Music ............................................................................................................... 15
  - Theater ............................................................................................................. 16
- Table of Arts Offerings ....................................................................................... 17
- Health and Physical Education .......................................................................... 17
- Bridges ................................................................................................................ 18
- Peer Leadership Training .................................................................................... 18
- Community Service ............................................................................................. 18
- Exchange Programs ............................................................................................. 18
- Senior Project ....................................................................................................... 19

## CURRICULAR CHOICE - COLLEGE COUNSELING PERSPECTIVE

- What Courses Should Be Taken for College? .................................................... 20
- What Courses Are Desirable When Applying to Competitive Colleges? .......... 20
- What Is the Typical Curriculum for Each Grade Level? ................................... 20
- What Are Specialized Programs Looking For? .................................................. 20
- How Do Selective Colleges View Arts Courses Taken at PDS? ......................... 20
- What Are AP Classes and Are They Important? .............................................. 20
- Classes at Princeton University ......................................................................... 20
ENGLISH

Upper School English is a four-year, integrated program based on the principle that reading and writing are complementary disciplines. Ninth and tenth grade students take year-long English courses shaped around the core curricula described below; juniors and seniors choose their courses from a rich and varied list of English electives.

SPEECH AND DEBATE (minor)
Open to all upper schoolers, grades 9-12, this year-long minor course gives students an exciting and challenging opportunity to strengthen their public speaking skills. Students prepare and deliver speeches that inform, entertain, and persuade, and they study the rules and techniques of formal debate, learning how to plan and present affirmative and negative arguments.

ENGLISH IX—SEARCH FOR SELF: LITERATURE ACROSS CULTURES AND AROUND THE GLOBE
Students entering the ninth grade are just beginning to step back and question themselves and their surroundings, exploring in various ways their autonomy. This course is designed to help them discover and nurture their powers of self-reflection in thought, feeling, and expression. English IX will examine an essential question: Who am I? It will explore the power of words and of storytelling to give shape and meaning to our experience and to our sense of self and community. Reading and discussing texts that span the globe, students will come to understand themselves, others, and the interconnectedness of all cultures.

As the humanities component of the PDS ninth grade experience, English IX will work to accomplish distinct literature goals and introduce essential skills. The course will be divided into three parts.

To help ninth graders transition to upper school at PDS and to establish a sense of belongingness and inclusivity, we will begin the year with personal narrative writing. Using our required summer reading as a point of comparison, students will define and question their own backgrounds and values. They will reflect on how they have emerged into their present states. This part of the course will provide opportunity to share personal and culturally diverse narratives.

Working with a selection of foundational literary texts, first trimester will introduce and hone critical reading skills and seminar style discussion. Students will read for theme, character, symbol, tone, voice, and style. They will write formal, analytical essays and personal responses to the stories they read. They will also craft short stories and poems. During the third trimester, students will write a short research paper that will help them become familiar with the resources available through the PDS libraries, strengthen their research skills, and learn to use information technology efficiently and wisely. The goal is not simply to improve writing skills, but to strengthen the students’ sense of self-confidence about their individual powers of self-expression.

During the second semester, we will read stories from different cultural perspectives. *Purple Hibiscus*, *To Live*, *Persepolis*, *When I Was Puerto Rican*, and *The Odyssey*, among others, will showcase characters in conflict with their familial, religious, and/or cultural roots. These stories of journey and self-discovery align with the global case studies students will be examining in their Religion in World History course across Shepherd Commons. There will be ample opportunity for shared discussion and assessments as well as a final project that will allow students to articulate their understanding of how stories help determine self and how they teach, preserve, and build cultural identity.

ENGLISH X—AMERICAN LITERATURE: JOURNEY, CONFLICT, AND THE AMERICAN DREAM
Tenth grade is a year when students come into their intellectual and analytical power. English X nurtures this developmental phase by focusing on close reading and analysis of text. The course is designed to help students grow as readers and thinkers who can interpret beyond the literal and respond to a text in more nuanced and complex ways, both critically and creatively. Whereas English IX looked outward to examine literature from around the globe, English X will turn inward to examine American literature.

Ours is a rich literature of trials and tribulations, successes and failures, hopes and dreams. It is a literature of journey and self-discovery, a literature of grappling with and articulating the American dream, a literature of assimilation and self-reliance, of subjugation and betrayal. English X will trace the competing narrative threads that define American literature and the American sense of self. Essential questions of the course include: What does it mean to be an American? What are the distinguishing features of American culture and of the American story?

Students will engage in close reading of *The Scarlet Letter*, excerpts from the essays of Ralph Waldo Emerson and Henry David Thoreau, *Adventures of Huckleberry Finn*, *The Great Gatsby*, *Slaughterhouse-Five*, *The Bell Jar*, *Song of Solomon*, and select plays, poems, and short stories. They will be required to respond to these texts in writing and discussion and to connect one piece of literature to another, to the U. S. history they are studying, and to their own experiences. Students will write both critical and creative responses to the texts they read. They will also assemble a poetry portfolio and draft several short pieces of fiction. The course will culminate in a research project that will allow students to draw explicitly on materials, information, and knowledge they have gathered in both English X and U. S. History.

Grades Eleven and Twelve - Electives
Next year as we move to semesters, the English Department will continue to offer a range of electives for juniors and seniors. During the fall semester, juniors and seniors will enroll in one of fourteen electives designed to strengthen their skills as readers, writers, and critical thinkers. In late January, juniors will begin a second semester English course with a focus on writing; seniors will participate in a short reading intensive course followed by our signature Senior Reading Intensive seminar.

Semester Electives for Juniors (Fall and Spring) and Seniors (Fall Only)

Please Note: What follows is a general listing of frequently offered English electives. An updated list of English electives scheduled to run for the coming fall is published each spring, at which time students sign up for a course through their current English classes. Spring electives will be selected late in the fall semester.

COMING OF AGE
In this course, we will ask ourselves what it means to “come of age.” What crucial issues do we confront as we grow up? Does the process of coming of age differ according to one’s gender, ethnicity, class, or physical surroundings? When, if ever, do we finally “come of age?”

We will consider these and other questions as we study a variety of coming of age narratives, which may include *Black Boy* (Wright), *A Prayer for Owen Meany* (Irring); *Emma* (Austen); *All Quiet on the Western Front* (Remarque); *The Glass Menagerie* (Williams); *The Absolutely True Diary of a Part-time Indian* (Alexie); *Extremely Loud, Incredibly Close* (Foer), *The Glass Castle* (Walls), and/or *Drown* (Diaz), as well as selected poetry and short stories. In addition to exploring the core questions through discussion and analytical writing, we will give voice to our own coming of age experiences by writing original poetry, short stories, and personal narratives.

CONSTRUCTIONS OF RACE IN AMERICAN LITERATURE
In 2013, The New York Public Library sponsored a conversation between Toni Morrison and Junot Diaz. At one point in their discussion, Diaz described Morrison’s work (both as an editor and a writer) as significant because it “shift[ed] the narrative center of the telling.” Morrison then added that the “shift” allowed many writers, especially those of color, to “dig” into their own soil.

In this course, we will explore how race is constructed in literature by holding texts from different time periods (from colonization all the way to globalization) in conversation with one another. As we do so, we will explore these essential questions: What are the stories of the American soil? What happens to “race” and “nationality” when the “narrative center of the telling” begins to shift and dismantle? What does it mean to be an American? How is contemporary literature by
writers of color helping to revise, rewrite, and reimagine America? How does American literature help us think through privileged and marginalized identities? Over the course of the term, we will dig into a variety of authors and theorists including: Ben Franklin, Ralph Waldo Emerson, Mark Twain, Walt Whitman, James Baldwin, Toni Morrison, Cornel West, Henry Louis Gates, Octavia Butler, Maxine Hong Kingston, Kwame Appiah, David Mura, Jhumpa Lahiri, Sherman Alexie, Junot Díaz, and Chimamanda Adichie. Expect lots of lively discussion and self-reflection.

CREATIVE WRITING

This course is for students with strong writing skills, a particular interest in creative writing, and the desire to explore writing in a range of forms — including personal essays setting and character sketches, dialog, poetry, short stories, sudden fiction, literature-based responses, plays, and screenplays. Significant class time will be devoted to a shared exploration of the writer's craft through individual conferencing, critiquing in small groups, free-writing, and presenting works in progress. For the final project each trimester, students will assemble a portfolio containing their best revised creations, as well as a personal statement concerning how and why their writing and their approach to writing have changed. To thrive in the atmosphere of freedom and experimentation that this course encourages, students should possess a self-motivated commitment to the craft of writing and an eagerness to explore (and help others explore) the range and depth of their voices as writers.

GENDER AND LITERATURE

From 1966 until 2014, the comic book character of Thor epitomized heroic masculinity. Last year, Thor became a woman. Marvel writer Jason Aaron wrote that he wanted someone else to “pick up the hammer,” and that someone should be a woman. In “Flawless,” Beyoncé samples Chimamanda Adichie’s Ted Talk: “Everyone should be a feminist.” What it means to be a male or female seems to be quite complicated these days. Yet, from the mythic Guan Yin to the modern-day Beyoncé, women have been venerated as powerful female figures. Rightly or wrongly, they embody standards of feminine beauty, strength, and compassion. Even the antithesis to these characteristics, the femme fatale, is often a very attractive figure. Women are central to the heroic as well as anti-heroic world of literature, film, and art, as well as in everyday life. This course will examine how women have been represented in literature, film, and art, from ancient myths to current cinema. We will examine the role of women in society, the ways in which women have been depicted in art and literature, and the ways in which women have been empowered through their representation in art and literature.

THE HERO IN LITERATURE

Heroism has been a central theme in stories as long as they have been told, bridging time and culture with a recurring power. Yet, the world is a hostile place, and the hero must muster the courage to face it, often alone. Although the role of the hero changes from era to era and culture to culture, heroes always experience tension between self-preservation and service to the greater good of the community. Students familiar with the tragic hero Oedipus and the epic hero Odysseus will notice how the familiar patterns of the hero’s story change in later historical and cultural traditions. We will look at the changing roles of heroes and villains in such works as One Flew Over the Cuckoo’s Nest by Ken Kesey; Beowulf, Grendel by John Gardner; Sir Gawain and the Green Knight; and The Things They Carried by Tim O’Brien. We will especially examine archetypes as they appear in classical literature and in popular culture. In our own writing, we will explore the heroic and anti-heroic through critical essays, creative writing, formal research, and class presentations. We’ll search for the heroic within and talk about how literature and stories can inform our inner lives.

(HI)STORY IN FILM AND LITERATURE

Every picture tells a story and every story is made up of words spun together to form vivid images on the page. “(Hi)Story in Film and Literature” will explore the ways in which both film and literature work to preserve, critique, and even reinterpret the past. Working with the assumption that history books, historical documents, artifacts, and public records are not the only way to learn about the past, this course will look to film and literature as valid forms of a collective “cultural memory.” Whether we are examining the French Revolution, the antebellum South, WWII, the Native American experience, or Vietnam, we will seek to understand significant moments in history through stories that have been crafted in words or in moving pictures. We will explore how artistic works of various eras celebrate, criticize, or reconstruct the past. Alongside our study of what story is being told, we will question the different perspectives from which all (hi)stories can be told (victim, victor, male, female, upper class, the masses, the young, and the old). Works read may include: Dicte’s A Tale of Two Cities, Camus’ The Plague, Hemingway’s A Farewell to Arms, and Saffron Foe’s Extremely Loud & Incredibly Close. Films may include Marie Antoinette, Au revoir les enfants, Bonnie and Clyde, Little Big Man, Django Unchained, and Zero Dark Thirty or American Sniper. Students will do historical research on each period studied, present “History blps” to the class, and keep a journal of the discoveries they make while reading and viewing works from different moments in history. They will craft several close analysis essays, a film review, and a creative story retelling an important historical event from an “untraditional” perspective.

HOMER’S ODYSSEY: ANCIENT MYTHS/MODERN LIVES

American students sometimes feel guilty about their limited knowledge of Greek mythology, much of which may be based on unreliable sources. Disney movies, novels by Rick Riordan, or a favorite childhood storybook. Yet even greater writers like Shakespeare and Chaucer borrowed selectively from Greek mythology, putting together parts of the whole that best served their artistic purposes. The surest remedy to complete one’s imperfect understanding of mythology is to read Homer. All mythic roads lead back to Homer in 800 BCE, and hundreds of tales and characters are embedded within his epic, The Iliad. Homer stands at the end of a four-hundred-year bardic tradition of storytelling, and through his artful digressions, ecphrastic poetry, flashbacks, biographies of warriors, and stories within stories, he fashions a comprehensive and curious mythological world, a world that many subsequent writers and artists reference, re-fashion, reject, or emulate.

In this course students will first read and study Homer’s The Odyssey in its entirety and then explore how Homer’s mythic universe helped to shape the visions of later artists and intellectuals throughout the world. After a close reading of the epic, a review of Trojan War myths and tales from The Iliad, and an introductory study of the Greek alphabet and language, students will critique works of secondary criticism, essays, poems, short stories, and works of are inspired by Homer and Greek mythology. In addition to The Odyssey, possible readings and art works include: Margaret Atwood’s Penelopeiad, the Coen brothers’ film O Brother, Where Art Thou?, Ovid’s poem Heroides, Book 3 of
LIGHTING OUT

Are there answers and strategies you might put in place right now that could help you rethink—and then improve—your approach to living, your journey through life? Or, as Steinbeck indicated, are you only pretending you might have control: “A journey is a person in itself; no two are alike. And all plans, safeguards, policing, and coercion are fruitless. We find that after years of struggle that we do not take a trip; a trip takes us.” But if he is wrong, could you create a life that is based more on well-being and being well—right now at P.D.S.?

In Lighting Out you will explore this journey-based question by reading texts that capture the key stages of the human journey through time (childhood, adolescence, emerging adulthood, adulthood, parenthood, mid-life crisis, old age, death). The conflicts and potential solutions you gather while reading longer works—Half Broke Horses (Walls), The Alchemist (Coelho), Clockwork Orange (Burgess), A Raisin in the Sun (Hansberry), Candide (Voltaire), Slaughterhouse Five (Vonnegut), Siddhartha (Hesse) in addition to your own experiences and those of your friends—will allow you to compare and contrast as well as form hypotheses. Psychological studies, poetry, plays, short stories and films (The Red Balloon, Rebel Without a Cause, Parenthood, and The Color Purple) will also serve as supplemental guides as well. Your quest will also involve visits to kindergarten and eighth grade, interviews with college students and emerging adults, discussions with parents and grandparents, and a visit to a homeless shelter. You will also creatively and analytically explore—from fuzzy first memory to your Last Will and Testament—what you think about how to live, how not to live, and why. “It is good to have an end to journey toward; but it is the journey that matters, in the end.” (Hemingway)

THE MARRIAGE PLOT IN BRITISH AND AMERICAN LITERATURE

From William Shakespeare to Jeffrey Eugenides, writers have long contended with the complexities of marriage. In her essay “Why the Marriage Plot Need Never Get Old,” novelist Adelle Waldman suggests that the endurance of the plot “derives from the internal and the timeless—from conflicts rooted in...human nature and the persistent difficulties of social life.” Out of that difficulty rises a desire for the happy ending, which in literature so often takes the form of a marriage. In this course we will consider marriage in its literary, cultural, legal, and historical contexts, beginning with Much Ado About Nothing and moving through such classics as Wuthering Heights, Emma, The Custom of the Country, and the play, The Importance of Being Earnest. Through satire, comedy, and gothic drama, with men as maddening as Heathcliff and intelligent as Mr. Knightley and women as ambitious as Undine Spragg and as acerbic as Gwendolyn Fairfax, these texts will challenge and shape our concept of the marriage plot. We will also examine the ways in which contemporary texts question the validity and significance of the marriage plot, most notably in films like Four Weddings and a Funeral and Eugenides’ aptly titled novel The Marriage Plot. We will also write critical essays and reflections as well as engage in research and creative projects.

THE MODERN PICAESQUE NOVEL

With its style originating in the sixteenth century and, arguably, its roots dating back 2700 years ago, the picaresque novel typically depicts a hilarious tale of satire and adventure, a story about a picaro or rogue, typically a person of low social class who lives off of his wits in a corrupt society. Like Holden Caulfield and Huck Finn, the rogue, while highly flawed, is at heart a romantic and preferable to those around him. As we navigate the texts of the course, we will come back to certain key questions over and again: Why has this four-hundred-year-old-plus genre that predates the novel endured? What role does the environment we live in play in the shaping of the rogue? Does the physical or psychological journey that the rogue embarks upon shape his or her ideals or do his or her ideals shape the journey? And why are we almost always charmed by the rogue despite his or her numerous faults? Naturally, there is a good degree of variation in the modern picaresque novel. Earlier works may include excerpts from Miguel de Cervantes’ Don Quixote, Geoffrey Chaucer’s Canterbury Tales, and Homer’s The Odyssey. More contemporary works may include Bridget Jones’ Diary by Helen Fielding, Cannery Row by John Steinbeck, Straight Man by Richard Russo, Karoo by Steve Tesich, and Angela’s Ashes by Frank McCourt. Writings will include critical essays, short responses, personal narratives, and creative pieces modeled on some of the works we read.

NEW YORK STORIES

“There are roughly three New Yorks,” E.B. White writes in Here is New York. “There is, first, the New York of the man or woman who was born here, who takes the city for granted and accepts its size and its turbulence as natural and inevitable. Second, there is the New York of the commuter—the city that is devourd by locusts each day and is repelled by each night. Either, there is the New York of the person who was born somewhere else and came to New York in quest of something more. Commuters and people who live in the city it’s tidal restlessness; natives give it solidity but continuity; but the settlers give it passion.” In this course we will explore New York City’s restlessness, solidity, and passion as reflected in stories, novels, and poems written over the last 150 years. We will begin in the “Gilded Age” of the late 1800s; pass through the buoyant, claustrophobic immigrant tenements of the early 20th century; and revel in the excesses of the Jazz Age in the roaring twenties, when the arts budded on street corners from Greenwich Village to Harlem. Our literary tour will end “after the fall” in today’s post-9/11 city. Readings will include such works as Melville’s Bartleby, the Scrivener; Wharton’s Age of Innocence; Fitzgerald’s The Beautiful and the Damned; White’s Here Is New York; Hamill’s Invisible City; Smith’s A Tree Grows in Brooklyn; and a range of poems, short stories, and essays. Writings will include critical essays and creative pieces growing out of the reading, and students will complete a research project on a topic of their choosing, as we explore both the literary landscape of New York City and the larger question of what it means to define ourselves in terms of a place.

POETRY MAKING

What is the place of poetry and poetry making in the world today? The poet Jane Hirshfield has said that poetry is “where the thinking of the heart, mind, and body come together. Its role is to forge a musical, intellectual, and emotional knowing in which those different dimensions of human consciousness can be brought into one field where we can be fully human. The role of the arts, especially in our increasingly technological culture, is to discover and preserve that way of interconnected thinking.” In this class, we will explore the role of poetry in our lives and interrogate its musical, intellectual, and emotional forces. We will consider a wide range of recent and contemporary American poets, as well as voices from a long tradition of American and English poets and voices in translation. As readers and writers, we will learn how to dwell with a poem, how to enter into a conversation with it in our journals and class discussions, and how to gather our findings into focused essays that are at once analytical and personal. Experimenting with a variety of forms, each student will gradually create a portfolio of poems to share in performance. Along the way, students will immerse themselves in one poet’s work and share what they learn with the class.

PSYCHOLOGICAL LITERATURE

There’s a theory that we need the insane to help us define what it means to be sane and to reassure ourselves that we are “normal.” Who decides what is “normal”? Is it a goal? Why do we fear, even love, the Other? How do we act toward forgiveness, acceptance, connection, and healing? We read several works that present different perspectives on sanity, madness, forgiveness, and redemption and raise questions about how we perceive and interpret reality. A variety of readings—novels, short stories, plays, memoir, non-fiction, and poetry—may include Stephen Chbosky’s The Perks of Being a Wallflower, Mark Haddon’s The Curious Case of the Dog in the Night, Fitzgerald’s Tender is the Night, Iain Banks’ The Wasp Factory, Peter Shaffer’s Equus; Kay Redfield Jamison’s An Unquiet Mind; Sam Shepard’s Buried Child, Chuck Palahniuk’s Fight Club; short stories by J.D. Salinger, Flannery O’Connor, and Franz Kafka; poetry by Emily Dickinson and others; and writings by and about Sigmund Freud. Our writings will include personal and creative responses, analytical essays, a short story, and an individual research piece.

Plato’s Republic, Odyssey paintings by John William Waterhouse, the poems of C. P. Cavafy, Derek Walcott’s Omeros, and the opera Les Troyens by Berlioz.
RED HERRINGS AND (LITTLE) GREY CELLS: THE DETECTIVE IN FICTION

There is something immensely satisfying about curling up with a good mystery novel, whiling away the time reading about secrets, lies, murder, and mayhem from the safety of our own living rooms. But why? What is it about the genre that has made it so enduringly appealing? Throughout this course we will strive to articulate an answer to that question while we examine the evolution of the fictional detective, from Edgar Allen Poe’s Dupin to Walter Mosley’s Easy Rawlins. We will consider the ways in which these detectives reflect the time and place of their creation and what their moral codes tell us about our own society. We will also hone our own detective skills as we analyze dialogue for means, motive, and opportunity, dissect plots to distinguish between red herrings and genuine clues, and, of course, try to figure out “who done it.” Possible texts include: The Mysterious Affair by Wilkie Collins, The Hound of the Baskervilles by Sir Arthur Conan Doyle, Murder on the Orient Express by Agatha Christie, The Maltese Falcon by Dashiell Hammett, Devil in a Blue Dress by Walter Mosley, A Dark Adapted Eye by Ruth Rendell, In Cold Blood by Truman Capote, and The Manual of Detection by Jedediah Berry, as well as selected short stories, essays, and excerpts from movies and TV shows. Writings will include analytical essays, personal responses, and original mystery short stories.

SHAKESPEARE AND HIS LEGACY

In anticipation of the 400th anniversary of Shakespeare’s death, we will embark on a celebration of his enduring works and remarkable legacy. Shakespeare’s plays and sonnets encompass the range of human experience in ways as intriguing and provocative today as when they were written. For this reason they continue to inspire new generations of writers, filmmakers, and musicians who recast Shakespeare’s work in innovative and surprising interpretations. In addition to reading selected sonnets and such plays as Romeo & Juliet, Much Ado About Nothing, Henry IV Part I, Macbeth, and King Lear, we will consider contemporary works like West Side Story, Shakespeare in Love, A Thousand Acres, and William Shakespeare’s Star Wars: Verily a New Hope. Throughout, we will consider themes of conflict, loyalty, self-awareness, romantic and family love — always keeping in mind the central question of why Shakespeare has stood the test of time. We will explore these ideas through performance and classroom discussions, in our reader’s and writer’s notebooks, in original writing, and in analytical essays on the plays and sonnets. We will bring the plays to life by reading aloud, performing scenes informally in class, reciting memorized speeches, and seeing various productions in theaters as well as on screen, and, whenever possible, on stage. Students will also have the opportunity to research some aspect of Shakespeare’s life, theater, or world and present their findings to the class.

WILD INSIDE, WILD OUTSIDE

“At the same time that we are earnest to explore and learn all things, we require that all things be mysterious and unexplorable.” - Henry David Thoreau

Just beneath the veneer of civilization are our animal selves. We are a part of nature, living not just by societal rules, but by deeply engraved and ancient instincts. Artists have been exploring our linkage to the natural world since the very first cave painting. As we probe our own psyches, we cannot help but think about the ways we are connected to the environment and each other. This course will explore our relationship to the wild and our own untamable spirits. The more deeply we examine human psychology and the more we physically experience nature, the more we understand the universal truths that govern both. Texts may include: The Hobbit (J.R.R. Tolkien), The Tracker (Tom Brown), Walden (Henry David Thoreau), Nature (Ralph Waldo Emerson), The Bear (William Faulkner), Pilgrim at Tinker Creek (Annie Dillard), Desert Solitaire (Edward Abbey) H Is For Hawk (Helen MacDonall), selections of Native American and contemporary essays and poems (Gary Snyder, Wendell Berry, Mary Oliver, Robert Frost, and the 19th century English Romantic poets), and a few films: Into the Wild, Journey of the Universe, and Never Cry Wolf. Writing assignments will include poetry, personal narratives, descriptive essays, and critical essays.

HISTORY

The History Department offers courses in art history, economics, geography, government, history, philosophy, and religion. We believe a diverse offering with a global outlook is important in developing our students for future success and we require that each student take World Religions in History in 9th grade, American History in 10th grade and at least one year of junior senior/ electives. Students who enter PDS after freshman year will be required to take a religion oriented elective. Please note that not all electives are offered every year. Admission to any individual elective may be restricted to ensure sufficient enrollment. Junior/Senior Electives will be offered as noted, subject to sufficient enrollment.

Grade Nine (Required)

THE SEARCH FOR SELF: WORLD RELIGIONS IN HISTORY

This course will investigate how religion and philosophy provide meaning to the human experience. During the first half of the course, we will create a foundational understanding of the major families of religion and philosophy by exploring the relationship between the individual and society. These families include, in chronological order: Indic (Hinduism and Buddhism), East Asian (Confucianism and Daoism), Abrahamic religions (Judaism, Christianity, and Islam), and humanist thought.

During the second half of the year, we will examine how these worldviews evolve and maintain their traditions as they come into contact throughout world history. We will take a case study approach to explore themes of intellectual evolution, cultural assimilation, and syncretism, as well as conflict and conquest. Examples of case studies could include the interaction of Hinduism and Islam in Mughal India; the intersections among Christianity, Islam, and African traditional religions; the relationship between the Reformation and the Enlightenment; and the tension between traditional Chinese thought and Maoist philosophy.

Grade Ten (Required)

AMERICAN HISTORY

American History is a thematic based examination of our nation’s development. The themes of Identity, Work, Peopling, Ideas, Environment, Politics, and America in the World offer our students a chance to explore the rich American story more deeply and from a variety of perspectives. Our students will improve their ability to communicate clearly and think critically, with particular emphasis given to the development of their research and writing skills. To enhance our enduring learning, we will take an interdisciplinary approach and work closely with English as they explore American literature.

Grades Eleven and Twelve (At least one required)

AFRICAN STUDIES

In this year-long course, we will examine the long arc of African history from prehistory to present day. In the fall we will explore the migrations of early African peoples and the evolution of their languages, key moments in African commercial and economic development, the diversity of pre-colonial African states, and the continent’s cultural patrimony. In the spring we will turn our attention to African Traditional Religion (ATR), its relationship to philosophy, the historical and intellectual development of Islam and Christianity in Africa, and the place of traditional religions, Islam, and Christianity in African art, literature, and cinema. In addition to challenging stereotypes and preconceived notions, students will become acquainted with current scholarship on Africa and gain an appreciation of the continent’s extraordinary history, its abundant intellectual and artistic heritage, and the place of religion and spirituality in this heritage.

ASIAN STUDIES

This course, intended for juniors and seniors, will examine the broad sweep of Asian history from ancient times up to the present. The
Introduction to Philosophy

Philosophy has been called “the art of wondering.” This is because philosophers ponder and try to answer our most basic questions, such as: What is truly real? How do we know? Is there a God? Why is there evil? What makes a society just? and What is the “good life”? This year-long course for juniors and seniors will examine how philosophers and great thinkers throughout history have tried to answer these questions and more.

As a course in world philosophy, it will take a comparative, multicultural approach. Our topics will range from Western philosophizing over the fabric of reality to Asian philosophical discussions of human nature and cutting-edge debates around artificial intelligence. In the spring we will turn to ethical theory, considering the work of moral philosophers alongside contemporary controversies. As the class meets, strives to understand, and compares these philosophers, students will be encouraged to wonder alongside them as they ponder the great questions of our lives.

Law and Society

While we all strive to create a just society, we often disagree over process and results. This class will explore the theoretical foundations of justice and how America has implemented various philosophical theories over time. The class will first introduce students to the major theories of justice in the Western tradition and then dive into the history and application of constitutional law. Students will read Michael Sandel’s Justice, significant speeches and treaties from American history, as well as Supreme Court cases. While students will be tested on the basic tenets of political philosophy and the Constitution, most of the assessments will be scholarly essays applying legal and philosophical theories to specific speeches and case studies.

AP Art History

This course examines art produced across the world from the earliest civilizations to the present (roughly 3000 BCE to 2015 CE), providing students with a global foundation in the history of art and architecture and a critical perspective on artistic expression. We will survey major monuments and movements, paying particular attention to how art shapes and is shaped by the social, historical, religious, and political circumstances of the period and culture. Following the redesign of AP Art History exam, which students are required to take, the three big ideas of this course. First, artists manipulate materials and ideas to create an aesthetic object, act, or event. Second, art making is shaped by tradition and change, and third, interpretations of art are variable. Our three essential questions for the year will be: What is art and how is it made? Why and how does art change? How do we describe our thinking about art? Our emphasis on culture, history, writing, and critical analysis fosters the kinds of skills crucial for success in any profession involving synthetic thinking. At least two assignments will be based upon visits to the Princeton University Art Museum, and we will take a class field trip to the Metropolitan Museum of Art.

AP Comparative Government and Politics

This course introduces students to the comparative study of politics, an area of political science that looks at different political systems and compares them in an effort to make informed observations about political ideologies, structures, processes, institutions, and leaders. We will begin the year with a general study of comparative theory and concepts before moving on to an examination of the history, structure, and policies of the European Union. We will then move on to the core curriculum, a study of the political and social systems of the UK, Russia, China, Nigeria, Mexico, and Iran. As students examine each nation, they will be developing the skills necessary to engage successfully in both single nation and comparative studies. Course materials include primary source material from a variety of sources and Kesselman’s Introduction to Comparative Politics. The course concludes with the required AP exam in May.

AP European History

Advanced Placement Modern European History is a full-year course focusing on European history from 1450 to the present, including the Renaissance, Reformation, Enlightenment and French Revolution, Nationalism and Imperialism, the World Wars and the Cold War, and Post-Cold War Modern Europe.
Coursework includes analysis of historical documents, student-centered activities and simulations, and writing document-based, long essay, and short answer questions. This course is designed to prepare students for the Advanced Placement Modern European History Exam by making demands upon them equivalent to that of an introductory college course. This includes using an AP-level textbook and supplemental primary and secondary materials. Highly motivated, independent learners who have a strong interest in European history should take this course. Students are required to take the AP exam in May.

AP HUMAN GEOGRAPHY
This course examines the 'why of where,' as students learn to employ spatial concepts and geographic analysis to understand the economic, social, political, cultural, and demographic organization of human societies and their environmental impact. Content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, urban geography, and population geography, as well as food production and agriculture. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Major topics include: economic development, cultural change, population growth, migration, ethnicity, gender and race, political conflicts, food production and agricultural land use, urban development, and climate change. By the end of the course, students should be more geoliterate, more engaged in contemporary global issues, and more nuanced in their viewpoints. Geographic understanding should become a source of ideas for identifying, clarifying, and solving problems at various scales and a key component of building global citizenship and environmental stewardship. Students are required to take the AP exam in May.

CLASSICAL AND MODERN LANGUAGES
As many languages you know,
As many times you are a human being.

The languages offered at PDS are French, Spanish, Latin, Classical Greek, and Chinese (Mandarin). Our languages are taught according to the current ACTFL standards. In some cases, students pursue studying more than one language. Note that all class offerings are depend on enrollment.

Placement
Students new to PDS or new to the upper school (9th grade) are placed in the appropriate language course by the department; this placement is based on the student’s communicative proficiency, which is evaluated through a written placement test, an oral interview, previous experience, and (when applicable) the recommendation of their current teacher.

All students must meet department standards to qualify for and retain honors/AP placement. Honors sections (in French and Spanish) are designated for students with an exceptionally strong grasp of the material covered in the prior year. Honors-level students progress at an accelerated pace, work well independently, and are held to a stricter grading standard.

In order to stay in an Honors track, students need to earn an A- (or higher) for the year AND earn the recommendation of the department. In order to advance from the non-Honors to the Honors track, students need to earn an A (or higher) for the year AND earn the recommendation of the department.

CLASSICAL LANGUAGES: LATIN & GREEK
Latin classes at PDS offer a balance between consistent progress in grammar study and translation and a close investigation of the history, culture, and literature of the Ancient Mediterranean World. In addition, a coherent word study program helps students improve their English vocabulary through their Latin studies. Latin courses range from introduction to grammar and Roman history to advanced courses such as AP Vergil and Caesar and Ancient Greek. “Classics” as a twenty-first-century discipline overlaps with and influences many other disciplines in the humanities: history, theology, philosophy, anthropology, literary criticism, archaeology, numismatics, epigraphy, and paleography. Therefore, the pleasures of learning Latin are many: serving as an entry point into many other of the human sciences, Latin is a beautiful, elegant language with over a thousand-year tradition of literature.

LATIN I
First year students learn from Units 1 and 2 of the Cambridge Latin Series. English and Latin grammar are studied through reading historical fiction about the family of Lucius Caecilius Iucundus. The “plot” unfolds in exotic territories of the Early Roman Empire – Pompeii, Roman Britain, and Alexandria – as students translate, write, and even speak the language of the Ancient Romans. Emphasis is placed on

LATIN II
Latin II begins with grammar review through the translation of Perseus and Hercules from Ritchie’s Fabulae Faciles. Much attention is paid not only to Latin vocabulary building but also to word origins and derivatives – students are trained to become etymologists, capable of tracing many of the 60% of English words that derive from classical Latin. Finishing up Unit 2 and beginning Unit 3 of the Cambridge Series, the class will follow Quintus, sole survivor of the Caecili family, from the tumultuous city life of Alexandria to the frontier towns of Britain and the capital city Rome. Roman art and architecture, military life, the Roman patronage system, and Roman religious and philosophical practices are covered extensively in this course. The students also explore the Julio-Claudian and Flavian dynasties through film, translation, and research.

LATIN III
Students begin the year with the conclusion of Unit 3 of the Cambridge Series. Advanced grammar is tackled, analyzed, and internalized. As the year progresses, students read extended excerpts from classical authors such as Martial, Ovid, Pliny, Catullus, Tacitus, and Vergil in Unit 4. In the spring the class is introduced to next year’s curriculum – either AP Vergil and Caesar or Latin IV, Ovid and Select Authors. Culture topics such as military tactics, engineering, art and architecture, and the reign of Domitian are explored. Students are well informed about the cultural treasures of the urbs aeterna if they choose to take part in the biennial Rome Trip.

LATIN IV- OVID AND SELECT AUTHORS
Latin IV begins in the fall with a survey of Latin literature provided by the Cambridge Unit 4 reader of Roman authors, Juvenal, Martial, Ovid, Pliny, Phaedrus, Vergil, Cicero, and select medieval authors. In addition, we will translate and study Roman myths and folktales from Ovid’s Metamorphoses, e.g. Apollo and Daphne and Icarus and Daedalus. A unit on Greek-Roman mythology is provided by Ritchie’s Fabulae Faciles, where regular sight-readings will both improve a student’s Latin reading comprehension and teach the rich content of hero sagas, e.g. Hercules and Jason and the Argonauts, and stories from Homer’s Odyssey. Latin IV will consolidate students’ knowledge of Latin grammar and vocabulary and hone translation skills so that they are well prepared for text-author courses of Latin 5.

Cultural and historical context of the above literature is provided by two main sources. Throughout the year, students will study the Late First and Second Century Emperors, from Domitian to Commodus, through the Mike Davis podcast The History of Rome. Moreover, a Rome city
project allows students the opportunity to choose one monument, urban region, or architectural wonder from any period of Rome’s long history and research it closely. Past projects include: the Sistine Chapel, historic churches of Trastevere, the Villa Borghese, the Ara Pacis, the Jewish Ghetto, The Protestant Cemetery, the Spanish Steps, and Hadrian’s Villa.

AP LATIN: VERGIL AND CAESAR AND LATIN 5

Two primary texts provide the focus of this course: Julius Caesar’s military journals De Bello Gallico and the poet Vergil’s epic The Aeneid. The emphasis of this course is to develop a student's Latin reading and translation abilities and analytical writing skills in English. Close attention is paid to the social and political milieu in which the books were written: the tumultuous days of the late Republic and the emergence of Empire during the reign of Augustus. Furthermore, in order to aid understanding of both texts, Roman military history, the Trojan War cycle, and the principles of classical rhetoric are carefully studied. AP designation by permission of teacher.

ANCIENT GREEK (minor)

This course is cross-listed with an English course, Homer’s Odyssey: Ancient Myths/Modern Lives, and is designed for post-AP Latin students who wish to receive combined credit for both English and foreign language study in their senior year – minor credit for Ancient Greek in an independent study format and major credit for English. Students will attend all classes and fulfill all the course requirements of the English class as well as work independently on the language in one-on-one tutorials with the instructor. Students learn Ancient Greek from Athenaze: An Introduction to Ancient Greek, Book 1; cf. the Odyssey course description in the English section above.

MODERN LANGUAGES – FRENCH, SPANISH, AND CHINESE

French, Spanish and Chinese are taught through a communicative approach stressing proficiency in listening, speaking, reading, and writing. All classes are conducted in the target language with the goal of enabling students to converse with native speakers, think in the language, and understand and appreciate other cultures.

PDS is offering seven levels of French and Spanish and five levels of Chinese. At the beginning levels, students learn how to communicate using basic vocabulary, grammar, and syntax and become familiar with culture and civilization. In advanced levels they study literature, history, civilization, and contemporary culture. Elective courses allow students to pursue specific aspects of the language and culture and to reinforce conversational skills. At all levels individual sections of the course are tailored to the abilities and strengths of the group.

FRENCH

FRENCH I

Students learn to communicate, using everyday vocabulary, elementary grammar, and basic syntax. Through individual, paired, and group exercises, we encourage students to express themselves in typical situations and everyday activities. Students are involved in meaningful interactions from the start. Topics include, among others, the family, clothing, school, weather, time, food, pastimes, and seasons. Students learn to use the present tense, the immediate future, and the passé composé. Since culture is an essential component of the curriculum, students are exposed to short readings and activities infused with cultural aspects of both the French and Francophone worlds. An interactive website as well as other multimedia materials reinforce class presentations and facilitate each student’s active practice of the language.

FRENCH II

At this level students continue to expand their knowledge of vocabulary, verb tenses (imparfait/passe composé), grammatical structures of intermediate difficulty (such as object pronouns, comparatives and superlatives, reflexive verbs), and general communication. The emphasis is on advancing and integrating listening, speaking, reading, and writing skills. Reading passages of progressive difficulty are introduced to enrich the full immersion in the French language and culture. Students read short authentic texts and are asked to memorize a poem. Projects are also a part of the curriculum, used to link student interests with aspects of contemporary French and Francophone cultures. Films, songs, and other interactive media reinforce essential vocabulary, linguistic structures, cultural knowledge, and listening comprehension.

FRENCH III

At this level students develop their ability to express more complex thoughts and feelings both orally and in writing. Students learn to read and understand increasingly difficult literary and expository texts, to discuss their ideas, and to organize them in composition form. Students reinforce and expand their knowledge of verb tenses (imparfait/passe composé, plus-que-parfait, futur simple, subjunctif) and other grammatical structures (such as double pronouns, adjectives and adverbs, relative pronouns, and interrogative pronouns) in order to communicate more effectively. Themes studied throughout the year include relationships and feelings, living in the city; the influence of media; values and politics; and the challenges of our contemporary society. Music, movies, and excerpts from audio-visual media (such as news on the radio, internet, or TV) enrich the cultural component of the class.

FRENCH IV

At this level students study and review the most difficult forms of grammar and verb usage (subjunctive with expressions of doubt and with conjunctions; compound relative pronouns, present participle, conditional, demonstrative and possessive pronouns). Critical thinking skills and fluency of expression are fostered through reading selections from newspapers, magazines, and major literary works. The literary and cultural components of this level serve as an introduction for those students who are interested in continuing at the AP level. In the Honors section, students are introduced to more advanced literary texts.

AP FRENCH LANGUAGE AND CULTURE

Beyond preparing students to take the AP French Language exam, this college-level course is designed to help them develop their command of the French language and their knowledge and appreciation of French and Francophone culture. Students entering the class should already have a solid grasp of French grammar and vocabulary, and their aural/oral competence should also be strong. During the course of the year through different activities (study of press articles and literary works, oral presentations, email and essay writing, comprehension activities about audio and audio-visual material…), the students will improve their four skills (reading, writing, listening, and speaking) with a special emphasis on written and spoken expression in French. They will review advanced grammar topics and will write essays on various subjects with a focus on the six thematic content areas prescribed by the College Board (personal and public identities, families and communities, science and technology, global challenges, contemporary life, beauty and aesthetics). All students will take the AP Language exam in May.

Requirements: Students must show mastery of the grammar points taught in French IV Honors, demonstrate high proficiency in reading and aural comprehension as well as speaking and writing with fluency and accuracy, earn a grade of A- in French IV Honors or an A in French IV, and receive recommendation of the department.

FRENCH V

This advanced French course, open to students who have completed either French IV or an AP class, is designed to develop knowledge of the French language and appreciation of Francophone societies and cultures. Students will increase their vocabulary and develop their linguistic skills while studying topics presented primarily in French films. The texts, press excerpts, movies, and songs studied in class will provide a rich historical and cultural background from which students will expand their understanding of the multiple aspects of French and Francophone contemporary societies.

ADVANCED FRENCH LITERATURE

This course is a survey of all the major movements in French Literature from the 16th to the 20th century. The class is comparable to a college level course. Its goal is not only to perfect the students' already
advanced level of proficiency in French, but also to develop a fuller understanding of and appreciation for French and Francophone literature and culture. The students will familiarize themselves with great works of French literature of intermediate to advanced difficulty and mature content. They will be provided with methods for literary interpretation through close reading of those texts. They will practice formulating critical opinions in spoken and written French and will be asked to participate actively in discussions on literary topics. The corpus of texts might include poems (by authors such as La Fontaine, Baudelaire, Apollinaire), short stories (by Maupassant, Balzac) and plays (by Molière, Sartre). This course is open to students who have completed AP French (or French 4 Honors with recommendation of the department). It is conducted exclusively in French.

SPANISH

SPANISH I

Although an introductory course, Spanish I utilizes the communicative approach to engage students in the reading, writing, listening, and speaking of the Spanish language. Students learn to communicate and exchange information about familiar topics using phrases and simple sentences. Through individual, paired, and group exercises, students manage short social interactions in everyday situations. Writing includes short messages and notes on familiar topics related to everyday life. Culture is an essential component of the curriculum; activities are constantly infused with aspects of the respective cultures and their contributions to our global society.

SPANISH II

This course is designed to develop the grammatical concepts and communicative skills acquired in Spanish I and to expand students’ ability to interact more fluidly in Spanish in everyday social interactions. Students will continue to grow in phonology, vocabulary, grammar, and culture through the four language skills: listening, speaking, reading, and writing. The course requires expressing ideas on a variety of topics in written and oral formats with more complex grammatical structures and a wider breadth of vocabulary. The above skills are improved upon through the use of authentic sources, which provides a greater understanding of the cultural complexity of the Spanish-speaking world.

SPANISH III

Spanish III continues using the communicative approach to engage students in the reading, writing, listening, and speaking of the Spanish language. Through individual, paired, and group exercises, students learn to participate in conversations on familiar topics using sentences and series of sentences and to handle short social interactions in everyday situations by asking and answering a variety of questions. They also are able to give presentations on a variety of familiar topics using connected sentences. They are able to understand the main idea of messages, presentations, and texts related to everyday life and personal interests or studies. Culture is an essential component of the curriculum; activities are constantly infused with aspects of the respective cultures and their contributions to our global society.

SPANISH IV

Spanish IV builds on the communicative skills developed in Spanish III through listening, speaking, reading, and writing. Students can converse with ease and confidence on familiar topics using various time frames. Through individual, paired, and group work, students deliver organized presentations and write on a variety of topics, also in various time frames. They are able to follow stories and descriptions of some length from various genres, even when something unexpected is expressed. Critical thinking skills and fluency of expression are promoted through authentic sources. Culture is an essential component of the curriculum; activities are constantly infused with aspects of the respective cultures and their contributions to our global society.

SPANISH V - CONVERSACIÓN Y Cultura: El Mundo Hispano

This course promotes Spanish and Hispanic culture through authentic sources and interactive activities from the vast Spanish-speaking world. Making a shift from the grammar-based textbook structure of the previous levels, this course brings the beauty, traditions, and culture to students in a relaxed and communicative classroom. Enrollment is open to students that have completed level IV, AP Spanish Language, and/or AP Spanish Literature courses.

AP SPANISH LANGUAGE AND CULTURE

The AP Spanish Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. The course strives to promote both fluency and accuracy in language use and to not overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is conducted exclusively in Spanish. The goal of the course is to provide students with the opportunity to build proficiency at the Advanced level and beyond. The course focuses on the integration of authentic resources with the goal of providing a rich, diverse learning experience. The AP Language and Culture exam is divided into three sections: one based on recommended contexts and guided by essential questions relating to the AP themes. These essential questions drive instruction; students are regularly assessed and receive formative feedback to refine communication skills and to develop deep understandings relating to the essential questions. Any student enrolled in this course must take the AP Spanish Language and Culture exam in May.

Requirements: Students must receive the recommendation of the department and either a) earn a minimum grade of A- in Spanish IV Honors; OR b) earn a minimum grade of A in Spanish IV AND demonstrate a proficiency level of Advanced Low, as determined by the AP Exam.

AP SPANISH LITERATURE AND CULTURE

The AP Spanish Literature and Culture (APSL) course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. APSL introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the verbal goal areas (communication, cultures, connections, comparisons, and communities) outlined in the Standards for Foreign Language Learning in the 21st Century. The course respects a meaningful integration of the cultures, connections, and comparisons goal areas of the Standards. Emphasis is placed on approaching the study of literature through global, historical, and contemporary cultural contexts. Students are encouraged to make interdisciplinary connections and explore linguistic and cultural comparisons. A key objective of APSL is to encourage students not only to understand and retell the content of the texts they read but also to relate that content to literary, historical, sociocultural, and geopolitical contexts in Spanish. APSL aims to help students progress beyond reading comprehension to read with critical, historical, and literary sensitivity. In order to best facilitate the study of language and culture, the course is conducted exclusively in Spanish. Any student enrolled in this course must take the AP Spanish Language and Culture exam in May.

Requirements: Students must receive the recommendation of both the Classical & Modern Languages and English Departments and successfully complete either AP Spanish Language & Culture or Spanish IV Honors.

LATIN AMERICAN IDENTITIES

This course, taught entirely in Spanish, examines how Latin Americans have constructed and interpreted racial, ethnic, class, and gender identities and ideologies from colonial times to present. Coursework focuses on the intersection of Iberian, American, African, and Asian peoples and the resulting multilingual societies in three specific regions – Puerto Rico, Mexico, and Peru – as well as on intersections between disciplines (history, geography, literature, music, and art). Students also explore how physical environments and geographies have influenced these identities. The goals of the course are to present philosophical ideas and themes surrounding these topics and to move students toward an integrated synthesis that reflects the benefit of using interdisciplinary tools to understand a situation or problem. This course is taught exclusively using the Project Based Learning methodology. To that extent, students will gain knowledge and skills by working for an extended period of time to investigate and respond to
an authentic, engaging, and complex question, problem, or challenge. Upon completion of this course, students should be able to demonstrate knowledge of how content from several different disciplines interacts through classroom discussion, written reactions, and collaborative case study.

**Requirements:** Successful completion of AP Spanish Language & Culture or AP Spanish Literature & Culture

**CHINESE**

**CHINESE I**

Students learn to communicate, using everyday vocabulary, elementary grammar, and basic syntax. Through individual, pair, and group exercises, we encourage students to express themselves in typical situations and everyday activities. Topics include the family, time, food, pets, and pastimes. Students acquire the speaking, listening, reading, and writing skills necessary for basic communication in Mandarin Chinese. The course emphasizes good pronunciation with particular attention to the four tones. In addition to the pinyin system, which is used to introduce pronunciation, vocabulary, and grammatical structures, students learn to read more than 170 Chinese characters and write approximately 110 Chinese characters. Calligraphy practices, videos, and interactive CDs reinforce class presentations and facilitate each student’s active practice of the language. The curriculum addresses cultural topics and enables students to make connections and comparisons between Chinese and other languages and cultures. The course also encourages students to use their knowledge of Chinese culture in the wider community.

**CHINESE II**

At this level, students continue to expand their knowledge of vocabulary, grammatical structures of graduated difficulty, Chinese characters, and general communication. Through individual, paired and group exercises, the students are encouraged to express themselves on the following topics: sports, school related activities, identifying locations, giving directions, shopping and bargaining, making appointments, and commenting and comparing concepts of punctuality. The emphasis is on advancing and integrating listening, speaking, reading, and writing skills. Students demonstrate more accuracy in tones and continue to build basic to intermediate skills in reading and writing. Students learn to read more than 400 Chinese characters and write approximately 250 Chinese characters. Reading passages of progressive difficulty are introduced to enrich the full immersion in the Chinese language and culture. Short writings by contemporary Chinese authors are introduced. Term-project presentations on Chinese culture are also an integral part of the curriculum, linking student interests with aspects of Chinese culture. Calligraphy practices, video materials, films, and interactive CDs reinforce essential vocabulary, linguistic structures, listening comprehension, and cultural knowledge.

**CHINESE III**

Students continue to develop their communicative competence in reading, listening, speaking, and writing. They approximately double their knowledge of vocabulary words and characters. Students are able to read and write short passages on family and personal topics. Units on Chinese history and culture help students develop a broader understanding and appreciation of this civilization. Students develop reading strategies to comprehend material composed in formal written Chinese.

**CHINESE IV**

Students will be able to engage in communicative tasks in three modes: interpretive communication, inter-personal communication, and presentational communication. Students will be able to understand the main ideas and facts from texts and read consistently with increased understanding. They will be able to demonstrate increased ease and accuracy in pronouncing Chinese sounds and tones and to handle successfully a variety of communicative tasks and social situations. They will give brief oral presentations and develop their writing and speaking proficiency by reading texts written in colloquial Chinese. In addition, students keep gaining understanding of Chinese cultural practices and traditions and study important places in China and the values and morals embedded in proverbs. Moreover, students will be able to make connections between Chinese and other subjects such as geography, social studies, and the fine arts.

**CHINESE V**

This course is designed for students who are prepared and motivated to participate in the extensive and intensive study of language and culture. Students will have the opportunity to engage in classroom discussions and research projects in order to allow them to use the language to explore in depth topics related to Chinese literature, history, education, travel, music, entertainment and technology in school. Strong organizational skills and the ability to work independently are required. AP material will be included in the course, such as reading from the Internet, materials from the Chinese-speaking world, essays, short stories, comic books, magazines, Chinese movies, and newspapers. The goal of this course is to further the students’ intercultural and communicative competence.

**MATHEMATICS**

**GEOMETRY**

This course consists of a study of geometry integrated with a review of skills from Algebra I. Using classical and modern construction techniques, students will investigate and learn properties that proofs verify. Students will see how geometry relates to the physical world through problem settings and potential projects involving design, architecture, construction, archaeology, etc. Confidence in mathematics is strengthened.

**Prerequisites:** Successful completion of Algebra I

**ACCELERATED GEOMETRY**

This course offers a clear introduction to the fundamental concepts and operations of plane geometry. Students use sequential logic and deductive reasoning skills throughout the course to provide informal justifications and arguments as well as formal ones that are the basis for two-column and paragraph proofs. Students see the development of Euclidean proofs and attain a working knowledge of trigonometry as it applies to right triangles. Areas and volumes are examples of additional topics. There is an expectation of algebraic proficiency, and algebra is used throughout.

**Prerequisites:** Successful completion of Algebra I
HONORS GEOMETRY
This course is intended for students with a strong mathematical ability and desire to deeply study the structure and applications of mathematics. The class includes a more sophisticated and faster paced study of all of the topics of the Accelerated Geometry class as well as many concepts which the Accelerated course will not have the opportunity to address. Superior algebraic skills are assumed and flexibility is necessary for application to the geometric concepts. The whole course is proof based.
Prerequisites: Successful completion of Algebra I

HONORS STUDIO GEOMETRY
This course provides an innovative and original approach to studying the classic principles of Euclidean geometry and requires enrollment in Honors Geometric Design (an introductory architecture course). The two courses will come together to create a deeply engaging interdisciplinary experience. Students will engage in a hands-on discovery of the axioms and theorems that rule the mathematics of objects in the world. Students will be lead to appreciate the mathematics as well as the artistic beauty of the field of geometry. Students will develop formal proof writing through deep understanding of how concepts work together logically. Strong algebraic skills are assumed and will be used throughout the study. Through the creation of products, students will display an ability to reason in two and three dimensions. Prerequisites: Successful completion of Algebra I

ALGEBRA II
This course provides the essential concepts and skills of algebra and the study of functions that are needed for the further study of mathematics. Topics include linear and quadratic, higher polynomial, rational, exponential, and logarithmic functions. Prerequisites: Successful completion of Algebra I

ACCELERATED ALGEBRA II
Accelerated Algebra II combines a rigorous study of algebra with an introduction to the family of functions. Students will gain a strong foundation in algebraic skills while exploring linear, quadratic, polynomial, exponential, and logarithmic functions. Applications are also used to reinforce theory and concepts. All of the topics of the Algebra II course are covered in depth with a larger emphasis placed on students developing skills in making connections more independently.
Prerequisites: Successful completion of Geometry I

HONORS ALGEBRA II
This course is intended for students with a strong mathematical ability and desire to study deeply the structure and applications of mathematics. The class includes a more sophisticated study of all of the topics of the Accelerated Algebra 2 class. The faster pace also allows for an in-depth study of trigonometry; circular functions, polynomial, exponential, and logarithmic functions. Prerequisites: Successful completion of Algebra II

DISCRETE MATH AND TRIGONOMETRY
This course is designed to prepare students for a college level calculus class. Students will study properties of polynomial, rational, exponential and logarithmic functions. An in-depth study of trigonometry includes the properties of circular functions, inverse trigonometric functions, identities, vectors, and polar graphing. Limits, parametric functions, and continuity are used to study each family of functions.
Prerequisites: Successful completion of Geometry and Algebra II

PROBABILITY AND STATISTICS
Probability studies uncertainty and randomness. Statistics collects and organizes data for analysis. Together, these two fields of mathematics provide a powerful vehicle for understanding the world around us. In this course students will develop the foundational tools for both probability and statistics. Using data from a variety of sources, students will learn how to create and interpret graphs, calculate measures of central tendency and spread, determine the probability of independent and conditional events, explore and utilize normal distributions and the Central Limit Theorem, and practice about approximately normally distributed data sets. The course culminates with a final project in which students will gather information about themselves and their peers to test a hypothesis and interpret the data.
Prerequisites: Successful completion of Precalculus or Discrete Mathematics and Trigonometry.

CALCULUS
This course provides a numerical, graphical, and analytical introduction to the study of calculus. Functions are revisited before expanding upon the theory of limits in order to develop the concept of the derivative and the definite integral. The definition of the derivative and the Fundamental Theorem of Calculus form the basis to study the mechanics of derivatives, anti-derivatives, and definite integrals. Applications that focus on real world situations are emphasized. Technology is used throughout. While this course gives a sound foundation for the study of calculus in college, it is not intended as preparation for the advanced placement test.
Prerequisites: Successful completion of Precalculus

AP CALCULUS AB
This course follows closely, but is not limited to, the guidelines of the Advanced Placement Calculus AB syllabus. Following a short review of functions, trigonometry, and graphing, the concept of a limit and the definition of the derivative are introduced. The theory and techniques of differential calculus are developed and applied to topics including optimization techniques, related rates, and the study of change in physics, economics, and life science models. Numerical approximation methods and integration techniques are applied to the contexts of areas, volumes, and curvilinear motion. The distinctions between antiderivatives, definite integrals, and improper integrals are addressed.
Prerequisites: Successful completion of Precalculus

AP CALCULUS BC
A continuation of the honors math curriculum, this course follows closely, but is not limited to, the guidelines of the Advanced Placement Calculus BC syllabus. After a brief review of limits and the fundamentals of differential calculus developed in the Honors Precalculus class, students apply these ideas to their perspective of functions. Topics include optimization techniques, related rates, and the study of change in physics, economics, and life science models. Numerical approximation methods and integration techniques are applied to the contexts of areas, volumes, and curvilinear motion. The distinctions between antiderivatives, definite integrals, and improper integrals are addressed. Other topics include series convergence, vector theory, and polar and parametrically defined functions.
Prerequisites: Successful completion of Precalculus
AP STATISTICS
The Advanced Placement Statistics course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four major conceptual themes of the course are exploring data, planning a study, making inferences from data, and modeling. Many real-world situations will be explored and students will learn to gather and analyze their own data. Students will use the TI-83 calculator and will also be asked to communicate their analyses through formal writing assignments. The course will follow the College Board’s curriculum, and the students will take the AP test in the spring. AP Statistics sectioning is based on previous grades, teacher recommendation, and a math aptitude profile.
Prerequisites: Successful completion of Precalculus

ADVANCED TOPICS IN MATHEMATICS: ORDINARY DIFFERENTIAL EQUATIONS
Advanced Topics in Mathematics is designed primarily for students who completed an AP Calculus course in their junior year and are interested in continuing their math education beyond high school. The course introduces students to various topics in advanced mathematics. While every year’s curriculum may be different, in the past such topics as advanced techniques of integration, partial derivatives, extrema and saddle points of 3-dimensional functions, linear and Bernoulli differential equations, hyperbolic functions, and factorials of fractions have been covered. In addition students in the past have researched and presented papers on various topics such as linear algebra, number theory, mathematics of economics, and others.
Prerequisites: Successful completion of an AP calculus course

COMPUTER SCIENCE

INTRODUCTION TO COMPUTER SCIENCE (minor)
In this year-long introductory minor, students will explore a variety of computer science topics, including basic programming logic, the design cycle of block- and text-based coding, web design, and app programming. Projects are designed to appeal to a broad range of student interests, ranging from music and graphic design to community service and sustainability, demonstrating the power of programming to solve problems across disciplines. By the end of the course, students will be able to code at a basic level and will be ready to dive into more complex programming languages and applications. This course, which will be graded on an A-F scale, is open to all students—no prior experience is required and there are no prerequisite courses.

OBJECT ORIENTED PROGRAMMING (Major)
This year-long intermediate major offers an introduction to object-oriented programming with an emphasis on real-life applications. Students will create a variety of simulations and games, using the Java/C++ and Python programming languages and their graphical packages. Projects include science simulations, computer games, and creating an on-screen piano, as well as programming a single-board mini-computer (Raspberry Pi) or a small robot. Students will gain project development skills applicable in the real world, while working on individual and team projects of their own design.
Prerequisites: Successful completion of Introduction to Computer Science or Robotics

AP COMPUTER SCIENCE PRINCIPLES (Major)
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. This year-long major will introduce students to the creative aspects of programming.

Students begin with Biology in the 9th grade, which includes the STEAMinar, followed by an introductory chemistry course in 10th grade, but most students are strongly encouraged to complete introductory courses in biology, chemistry, and physics prior to graduation. Research and writing skills are reinforced throughout the curricula. A student may enroll in an AP science course only after completing an introductory course in that discipline. If a student is considering doubling-up in the sciences, the Science Department will take into consideration the student’s past and present performance, the enrollment of the courses selected, and the overall course load requested by the student.

Introductory/Core Courses

BIOLOGY (and STEAMinar)
This introductory course provides a survey of the major concepts ranging from the molecular level to the community level. Topics include up-to-date coverage of cells, genetics, DNA, evolution, ecology, plants, animals, and human biology. Hands-on laboratory investigations, as well as computer-assisted labs, enable students to take a firsthand look and gain experience in the scientific methods and data-collecting techniques used by biologists. In addition, the course develops scientific literacy as well as prepares students for future science courses in our Upper School.

Embedded within each 9th grader's science and math courses is an interdisciplinary STEAMinar that explores issues at the intersection of biology, mathematics, coding, engineering, and design with the goal of giving students an authentic sense of how these subjects apply to practical questions of the kinds they will confront in their future civic and professional lives.

The goal of the seminar is to give freshmen, through biological topics, an introduction to programming, an understanding of mathematical modeling, and an opportunity to design and build. This experience is meant to kindle an interest in biotechnology, coding, and building that future course experiences can extend through the rest of their high school careers.
APPLIED CHEMISTRY
This is an introductory course emphasizing the practical role chemistry plays in modern society and daily life. Based on a curriculum designed by the American Chemical Society, this course provides an introduction to the fundamental principles of chemistry and covers traditional chemistry topics but within the context of societal issues and real-world scenarios, such as petroleum shortages, alternative energy, and access to clean water and air. Units of study stress organic chemistry, biochemistry, environmental chemistry, and industrial chemistry. This laboratory-based course focuses on generating data from investigations, analyzing that data, and then applying a knowledge of chemistry to solve problems that arise in everyday life. Concepts are introduced as they are needed to solve problems, and then arranged in meaningful patterns that lead to an understanding of nature. Analysis of written material, proficiency in problem-solving, and debating risks and benefits of issues presented are emphasized.

Requirements: Completion of Biology

CHEMISTRY
This course provides an introduction to the fundamental principles of chemistry. Topics of study include atomic and molecular structures, the periodic table, bonding, chemical reactions and nomenclature, states of matter, stoichiometry, and acids and bases. Emphasis is placed on mastery of the theoretical framework of modern chemistry and the mathematical skills necessary to achieve this understanding. While this course is more traditional in design than Applied Chemistry, frequent laboratory investigations provide for a hands-on approach to learning the material, giving students the opportunity to discover practical applications and strengthen their observational and analytical skills. The laboratory experience is enhanced by the use of microchemical approaches in addition to traditional experiments. This course is a challenging and creative journey in understanding chemistry and its place in science, technology, and society.

Requirements: Permission of the department and successful completion of Biology (B) and of Geometry (B+), Accelerated Geometry (B), or Honor Geometry (C+) or higher

HONORS CHEMISTRY
This course is intended for students with a strong mathematical ability, an inclination towards problem solving, and a keen interest in the finer details of chemistry. As an introductory course, it includes everything described above for Chemistry. However, a faster pace allows for a greater breadth and depth of topics, including thermodynamics, kinetics and nuclear chemistry, chemical equilibrium, redox reactions and electrochemistry, an introduction to organic chemistry, and a deeper probing of the concepts of quantum mechanics and molecular structure. Furthermore, advanced applications of the material are examined, particularly in the stoichiometry unit.

Requirements: Permission of the department and successful completion of Biology (B) and of Geometry (B+) or Accelerated Geometry (A-) or Honors Geometry (B) or higher

PHYSICS
This course is an introduction to the physical laws of nature. Topics covered include motion (linear, projectile, and circular), forces, gravitation, energy, momentum, electricity, sound, and optics. Emphasis is placed on conceptual reasoning and problem-solving skills. There are demonstrations and labs for each topic as well as projects (rubber band car, bridge building).

Requirements: Successful completion of Biology; of Applied Chemistry, Chemistry, or Honors Chemistry; and of Algebra II or higher

HONORS PHYSICS
The honors course includes everything described above for Physics (with additional topics) and is intended for students with strong math abilities. The problems are more extended and/or complex and involve using trigonometry, quadratic equations, systems of equations, and logarithms. Inquiry based methods of learning the content are emphasized as are other foundational science practices, such as data analysis and engaging in critical thinking and questioning. Students may opt to sit for the AP Physics 1 exam with additional self-study.

Requirements: Permission of the department and successful completion of Chemistry (A-) or Honors Chemistry (B) and of Accelerated Algebra II (A-), Honors Algebra II (B), or Accelerated Precalculus (B) or higher

Electives

HUMAN ANATOMY AND PHYSIOLOGY
This elective introduces students to the structure and function of the human body. The textbook was chosen for clarity, excellent illustrations, and appeal to students at this level. A wide variety of classroom activities help to maintain a high level of interest and participation. These include labs, demonstrations, guest presenters, audiovisual materials, and open discussion of topics that are pertinent and of interest to students. A workbook is employed that integrates a traditional study guide approach with visualization, drawing exercises, and questions that challenge the students to apply their knowledge to clinical situations. With the completion of this course, students should have greater awareness of the factors that influence their health and well-being.

Requirements: Completion of Biology and of Applied Chemistry, Chemistry, or Honors Chemistry or permission of the department

ENVIRONMENTAL SCIENCE
The purpose of the Environmental Science elective is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems (both natural and human-made), to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental Science is an interdisciplinary lab science; it embraces a wide variety of topics from different areas of study. Incorporating primarily the disciplines of chemistry, physics and biology, using field work experience, engaging in projects, and using a team approach to problem solving, the course intends to spark students’ interest in the environment and enable students to apply their science experience at PDS. In addition, literature, art, and selected topics in history will be used to supplement the text. Preference is given to seniors who have completed biology, chemistry, and physics.

Requirements: Completion of Biology and of Applied Chemistry, Chemistry, or Honors Chemistry

ASTRONOMY
This course is an introduction to the universe. Topics covered include the history of astronomy, gravity, light, telescopes, the Earth, the Moon, the solar system (including planets, asteroids, and comets), the Sun, stars, and cosmology. The study of astronomy is presented in a conceptual manner with little emphasis on math, though a knowledge of chemistry and physics is helpful. The course is activity based with demonstrations, experiments, slide presentations, videos, and observing projects. The school’s planetarium is used to observe motions of the Sun, Moon, planets, and stars. Weather permitting, there are “star parties” where students use telescopes to observe celestial objects. A highlight of the course is students building and launching their own model rockets. Astronomy is only open to juniors and seniors.

Requirements: Completion of Biology and of Applied Chemistry, Chemistry, or Honors Chemistry

ROBOTICS AND INFORMATION PROCESSING
Robotics and Information Processing endeavors to give students a broad-based, hands-on exposure to the world of robotics and microprocessors. This introductory course will teach students basic requisite skills in computer programming and mechanical/electrical design that will allow students to create electrical and computerized products with varied applications (including robotics). For example, by utilizing microprocessors such as Raspberry Pi, students will design projects that explore how electronics can interact with the physical world, integrating such components as motors, sensors, and digital interfaces while also emphasizing the positive impact on individuals, the ecosystem, or society. In addition, students will build a foundation of robotics engineering knowledge and skills that will prepare them for participation on the VEX Robotics Competition teams. Finally, students will also be given a historical background in artificial intelligence, robotics, and microprocessors and consider the future ethical and economic implications of these applied sciences.

Requirements: Permission of the department

INTRODUCTION TO ENGINEERING – ENGINEER YOUR WORLD
Engineering impacts human lives and the world around us. Engineer Your World is an innovative, student-centered course that engages
learners in authentic engineering experiences in a hands-on, project-based environment. The course was developed by the University of Texas at Austin and NASA and has been designed to be inclusive of all high school students. In this course students discover how engineering shapes their world, develop engineering skills, build engineering habits of mind, and explore a broad range of engineering fields and professions. Collaborative, student-directed projects and design challenges build resilient problem-solving skills and empower students to think like engineers. They learn to quantify systems; apply common engineering tools and techniques; generate and select concepts; embody, test, and verify designs; and document and communicate their work. Engineer Your World covers the breadth of engineering fields and professions so that students can make informed decisions about pursuing engineering. The skills developed during the course will be valuable whether or not students decide to further pursue an engineering career.

**Requirements:** Successful completion of geometry and sophomore or higher standing but not technical skills or high level math or science

**INDUSTRIAL DESIGN**

This course will enable the student to learn how to design and manufacture a new product by exploring iterative processes of the Innovation Ecosystem to develop a portfolio of projects that seek to offer solutions to meet societal needs. Working collaboratively, students will create semester long, hands-on projects that incorporate innovative problem solving while mastering a wide array of skills: concept drawing, drafting, 3D CAD modeling, rendering, and model making. The course will offer an in-depth overview of diverse production methods, manufacturing, and product lifecycle management. The final portfolio will receive feedback from peers, cross-disciplinary faculty, and professionals from the field.

**Requirements:** Successful completion of Robotics, Introduction to Engineering, or any introductory level visual arts or design course

**AP BIOLOGY**

This course is the equivalent of a first year college biology course and follows a syllabus approved by the College Board. The four “Big Ideas” are evolution, cellular processes: energy and communication, genetics and information transfer, and interactions. The AP Biology investigative labs are produced by the College Board. These labs lead to student-directed inquiry-based investigations. A lab notebook will contain the information necessary for making formal collaborative lab reports. Students will be able to apply math skills that have been acquired in their mathematics courses, including graphing, modeling, and statistical analysis. Students are required to take the AP exam in the spring.

**Requirements:** Permission of the department and successful completion of Biology (B+) and of Applied Chemistry (A), Chemistry (B+), or Honors Chemistry (B)

**AP CHEMISTRY**

This course is the equivalent of a first year college chemistry course. It follows a rigorous syllabus approved by the College Board and requires students to do a significant amount of work outside of the classroom. Laboratory experiences reinforce the quantitative nature of the course and utilize highly analytical pieces of equipment and glassware with an emphasis on inquiry-based investigations. Students are expected to have a strong mathematical background with an emphasis on good problem solving abilities. Students are required to take the AP exam in the spring.

**Requirements:** Permission of the department and successful completion of Honors Chemistry (B) or Chemistry (A and teacher’s recommendation) and of Honors Algebra II (B) or Accelerated Algebra II (A-)

**AP PHYSICS C: MECHANICS**

AP Physics C is the equivalent of a first year calculus-based college course. It follows the curriculum of the AP Physics C courses in mechanics and electricity and magnetism as established by the College Board. This course is intended for students who have a strong inclination toward physics, mathematics, and engineering. The major goal of the course is for the students to understand the fundamental principles of physics and to develop strong problem solving abilities. Physics content is introduced both conceptually and mathematically through the lens of calculus. Inquiry-based methods of learning the content are emphasized, as are other foundational science practices such as data analysis and engaging in critical thinking and questioning. Students are required to take the AP exam in the spring.

**Requirements:** Permission of the department and successful completion of Physics (A with teacher recommendation) or Honors Physics (B+); concurrent enrollment in Calculus BC or successful completion of Honors Precalculus (B) or Accelerated Precalculus (A-)

**ADVANCED RESEARCH EXPERIENCE**

The Research Experience course, or REX, will provide students with first-hand knowledge of scientific practices in realistic settings by combining a unique inquiry based curriculum with a laboratory research placement (5-6 weeks, summer 2018). Throughout the course students will be encouraged to explore their individual interests in science through subject specific explorations, laboratory investigations and techniques, and communications with specialists in subject specific fields of research. One of the unique features of the course is its attention to both the breadth and depth of scientific inquiry. The curriculum begins with an overview of the research experience through a guided investigation of scientific journal publications. After an introduction to the process of scientific literature review, students will begin a deeper investigation into a particular area of interest, which can be any area of scientific focus: biology, chemistry, physics, engineering, technology, or computer science. This more nuanced investigation is intended (i) to enable students to become proficient in experimental design and (ii) to help students prepare for their internship, a summer research laboratory placement (6-8 weeks, summer 2020).

**Requirements:** Permission of the department and successful completion of Biology (B+) and of Chemistry (B+) or Honors Chemistry (B-). Students entering 11th grade eligible for consideration upon completion of a course application and committee review. Upon acceptance, students must agree to the fulfillment of 6-8 weeks of research (summer 2020) upon acceptance into this course.

**THE ARTS**

**VISUAL AND DESIGN ARTS**

**STUDIO ART: DRAWING, PAINTING, AND MULTIMEDIA**

**INTRO TO FINE ART (minor)**

The fine art minor is the prerequisite for the major. Increasing visual literacy, developing a range of technical skills, and establishing a solid conceptual foundation are accomplished through work in both two and three dimensions (drawing, painting, multi-media) and through introducing students to critique and historical analysis. Students are taught to experiment with a wide range of materials, to develop an understanding of design, to increase their technical skills, and to work collaboratively. Play, exploration, process, and the development of
both a strong overview of the meaning and practice of the arts in the 21st century along with a focus on developing an independent approach are the essential goals of the program.

ADVANCED FINE ART (Major or minor)
In the advanced-level class, students are introduced to the tools, materials, and approaches necessary to respond to a full range of contemporary issues. The class concentrates on building a solid technical basis while maintaining a focus on contemporary conceptual strategies for the production of images and objects. Students can enroll in this class for up to three consecutive years after their completion of the foundation prerequisite. To accommodate the range of skills and experience in the class, a new program is built every year. Close attention to the work produced in the 20th and 21st centuries will form the historical foundation of the course. Students are encouraged to develop personal style and direction; this course provides students with the opportunity to develop work for competitions, exhibits, and college portfolios.

Requirements: Completion of any introductory visual or design art course

INTRO TO VIDEO AND MEDIA ARTS (minor)
This is a full year offering in film and media history and production. The concentration of the program is focused on building media literacy, analysis, and studio production. We will focus more closely on a number of directors and film genres and learn Final Cut Pro as our main editing software. There will be a continued focus on storyboarding and writing for short film narrative. Documentary and experimental traditions of filmmaking will be explored in greater depth, and students will be given the opportunity to begin developing a focus. A goal in this major is to develop a strong portfolio of short films. Students can enroll in this class for up to three consecutive years after their completion of the intro level. Each year is structured in a unique manner to continue building as solid a foundation in media as possible.

Requirements: Completion of Intro to Video and Media Arts

CERAMICS

INTRO TO CERAMICS (minor)
This foundation course in ceramics provides a thorough introduction to the fundamentals of 2-dimensional and 3-dimensional concepts and techniques in the field with an emphasis on direct studio experiences, technical proficiency and personal expression. Following the design thinking stages, and understanding the significance of these stages to all fields of study, is emphasized with each project. Students learn the fundamentals of wheel-throwing and hand-building while realizing the vast potential for surface techniques using carving tools, slips, glazes, and resist printmaking processes. This course provides an inspiring realm of possibilities with the versatile material of clay including ancient, traditional techniques and new, innovative materials and processes. Historical and contemporary ceramic artists will be referenced throughout the course for their artistic and cultural significance. Group critiques, as a way of formulating educated and analytical opinions about their work and that of others, are practiced throughout the course.

Requirements: Completion of Intro to Ceramics

INTERMEDIATE/ADVANCED CERAMICS (Major)
In this studio course, a greater emphasis will be placed on developing more advanced techniques within the realm of ceramics. Vessel aesthetics and sculptural principles will be explored to expand one’s potential for innovation. Historical and contemporary topics will be regularly referenced throughout the course for a deeper, more comprehensive understanding of the vast field of art and design. Students continue to rely on the design thinking stages to develop their projects and many students begin to design their own parameters for their projects, relying on a more self-directed research and design process. The regular use of a sketchbook, as a means of journaling concepts and ideas becomes second nature in the studio and students begin to craft a personal artistic and design vision. Portfolio development is emphasized during this course for both college applications, summer program pursuits, and competition entries. This course may be repeated.

Requirements: Completion of Intro to Ceramics

PHOTOGRAPHY

INTRO TO PHOTOGRAPHY (minor)
This is a foundation course, the prerequisite for all advanced photography classes. It covers basic camera controls, composition, digital imaging, black-and-white film developing, darkroom printing, and mounting. Students use the school’s analog cameras and provide their own digital SLR cameras. Adobe Lightroom and Photoshop are used in the digital darkroom. Each young photographer is expected to take part in critique, to exhibit work, to maintain a sketchbook, and to become familiar with some of the major figures in the history of photography.

ADVANCED PHOTOGRAPHY – LIGHTING AND PRINTING (Major or minor)
This course explores advanced lighting and printing techniques. The first semester is dedicated to lighting, including natural, artificial, and studio strobe. The second semester is allocated to the craft of fine printing, both digital and analog. Many topics will be discussed, including the history of photography and iconic photography books. Students will learn historic and alternative processes. The coursework will culminate with two major projects, one due at the end of each semester.

Requirements: Completion of Intro to Photography or permission of instructor

ADVANCED PHOTOGRAPHY – FINE ART (Major or minor)
This course covers both analog and digital capture as well as advanced printing techniques in the darkroom and the digital lab. Students use both analog and digital SLRs, the medium-format camera, the Holga camera, and the iPhone (or a school iPod). They explore lighting and lenses and the large format printer. They study the work of current and past fine-art photographers. Each young photographer is expected to develop a personal style, to participate actively in critiques, to maintain a sketchbook, and to produce a mounted portfolio of work.

Requirements: Completion of Intro to Photography

ADVANCED PHOTOGRAPHY – THE PHOTO ESSAY (Major or minor)
The emphasis of this course is on creating documentary photo essays that are often created in book form. Students learn new skills including the art of digital capture, use of flash, shooting in sequences, incorporating text, and advanced digital imaging techniques. Also covered is the history of photojournalism, current figures in documentary photography, ethical questions that arise for photojournalists, and the art of critiquing one’s own and others’ work. Students are expected to maintain a sketchbook.

Requirements: Completion of Intro to Photography

ARCHITECTURE

INTRO TO ARCHITECTURE (minor)
In order to understand architecture, engaging in a direct experience of space is critical. Fundamentally, the physical scale model allows us to perceive the three-dimensional experience rather than having to try to imagine it. In this studio, students profit from the dynamic relationship between learning basic design and architectural concepts and physically employing them in the construction of prototypes. Important architectural principles will be introduced through studio exercises, presentations, and demonstrations. Here the student is introduced to historical ideas and begins to build informative models of influential designers to understand concepts. This course will sharpen the
student’s powers of observation as well as the student’s ability to conceptualize, analyze, and create the world of architecture and design. Students will also explore concepts through drawing and abstract three-dimensional constructions. The studio will focus on creative problem solving as well as artistic experimentation. Each student will be required to obtain a kit of basic construction and design tools.

HONORS GEOMETRIC DESIGN (minor)
This new foundation studio encourages and develops each student’s capacity to detect patterns and opportunities, to create artistic and emotional beauty, to craft a satisfying narrative, and to combine seemingly unrelated ideas into something new. The studio is significantly rooted in merging the power of geometry with the power of design through the processes of ‘making’ to realize something that is greater than any of its parts. The projects throughout this study are direct responses to the concepts covered in Honors Studio Geometry, in which co-enrollment is required, but explore them in new ways through 3-dimensional work. This course will sharpen the student’s powers of observation as well as the student’s ability to conceptualize, analyze, and create in a world of architecture and design. Students will focus on creative problem solving through artistic experimentation. Each student will be required to obtain a kit of basic construction and design tools.

ADVANCED ARCHITECTURE II: THE PRIVATE HOME, A PUZZLE, AND THE POWER OF MOCK-UPS (Major)
In this course students realize that they are more relaxed than in the first year because they actually learned how to experiment and craft and idea. Now they begin to refine how they work and raise the bar for themselves to become more independent thinkers. Drawing and sketching become more pivotal as does problem solving through abstract three-dimensional constructions. Model making takes on a more important role as the process is used to explore and understand one’s research into the study of an architect’s ideas or as a method for the student to gain insight into various possible design solutions. Group projects are used for some aspects of this course, but the main focus will be on individual studio work with the design and construction of scale models for site specific houses and the powerful construction of a complex abstract design challenge which is actually based on the study of Urban Design.

Requirements: Completion of Intro to Architecture

ADVANCED ARCHITECTURE III: COMPLEX AND PUBLIC SPACES (Major)
Here the student becomes immersed in the concepts of complex and public spaces. This might start off with abstract three-dimensional design exercises and even the study of a home that is not a single structure but is made of multi-purposed buildings. Another aspect is the study of urban plazas, urban parks, memorials, museums and performance arenas. Students will be inspired by the likes of Frank Gehry and other design leaders. Field trips are important to use for inspiration and to actually measure and build to scale. The student takes on complex ideas and finds solutions which express the needs of a particular site, culture, and client. In the studio, which begins with some very abstract design problems, the student finds that seemingly diverse ideas can be beautifully orchestrated together. The final projects bring all of each student’s presentation and rendering skills together in one site specific model.

Requirements: Completion of Advanced Architecture II

THE MASTER’S STUDIO: ARCHITECTURE IV (Major)
The fourth year architecture student may develop a year of Independent Study Studio with the permission of the instructor. In this studio, the student is invited to work out a thesis project that will develop over the year and either end when the senior project begins or evolve into the senior project. Permission to take this course is expected to attend sectional rehearsals (grouped by instrument) twice
each month. The Band performs several times a year in school concerts and other community events. Students interested in playing guitar or piano will be required to audition and will need the permission of the instructor to be admitted.

CHORUS (minor)
This course is for students who enjoy singing and have the desire to practice and perform with a choral ensemble of their peers. The course is designed to help students improve both vocal technique and music reading and to discover how the voice works, as well as to teach valuable performance and ensemble skills. Students should have some background in music literacy. They will study a wide variety of music, including a repertoire of various genres, composers, and style periods. Students are graded largely on participation, concert preparation, and acquisition of singing skills and will have both written and individual performance exams each trimester. The Chorus has several required performances throughout the year in school concerts and other community events.

Requirements: Participation the prior year in Chorus (Upper or Middle School) or by audition

ORCHESTRA (minor)
This course is for students who play string instruments and have the desire to practice and perform with an instrumental ensemble of their peers. The course is designed to help students improve both playing technique and music reading, as well as teach valuable performance and ensemble playing skills. Students in this course will study a wide variety of music including repertoire of various genres, composers, and style periods. Students are also expected to attend sectional rehearsals (grouped by instrument) twice each month. The Orchestra performs several times a year in school concerts and other community events.

*NOTE: A student may be a member of more than one of the above ensembles at the discretion of and through arrangement with the directors.

INTRODUCTION TO MUSIC THEORY I (minor)
This course is for the student who wishes to pursue more knowledge of the inner workings of music. It is an introduction to the principles and practices upon which music is built. Students will learn analytical and compositional techniques that will be valuable to them as performers, listeners, and creators of music. This course will cover the following topics: rhythm, pitch, keyboard, intervals, major and minor scales, key signatures, and the circle of fifths. Students will also begin to develop their aural skills through sight-singing and melodic dictation. No prerequisite or prior knowledge of music is required.

MUSIC TECHNOLOGY (minor)
This course focuses on the creative use of computers in music composition and production. Students will learn about the tools and techniques needed to produce high quality audio work. They will have the opportunity to learn these skills by creating their own compositions and arrangements on different types of software and hardware. Topics to be covered will include MIDI sequencing, sound synthesis, audio sampling, digital audio recording, and digital music notation. Students will be expected to acquire a basic understanding of music theory prior to taking this course.

AP MUSIC THEORY (Major)
This is a course for the experienced music student (grades 10-12) to develop his/her creative skills while preparing to take the AP Music exam. Topics will include figured-bass realization, four-part voice leading, form, and analysis. Emphasis will be placed on mastery of aural skills including rhythmic, melodic, and harmonic dictation as well as sight-singing. Students will be expected to take the Advanced Placement Music Theory exam in May.

Requirements: Completion of Introduction to Music Theory

CHAMBER MUSIC (extra-curricular)
Instrumental students are placed in small ensembles and work with a faculty member on selected repertoire of various styles. Rehearsals take place outside the school day or at mutual free times for the players and teacher. Emphasis is placed on collaboration, ensemble playing, and musical independence. Students participating in the Chamber Music program (open to grades 9-12) must be taking lessons with a private instructor (either at PDS or elsewhere). Chamber groups will perform in various settings throughout the year, including a Chamber Music Concert in the spring. (Chamber Music is also open to capable vocalists). Students must be enrolled in Band, Orchestra or Chorus to participate in Chamber Music.

MADRIGAL SINGERS (extra-curricular)
The Madrigal Singers (open to grades 9-12) is an auditioned, mixed (SATB) group, which performs highly challenging music of various languages and styles, including classical, contemporary jazz, and pop styles, with a focus on a cappella singing. Princeton Day Singers will perform several times throughout the year at school concerts and community events. Students must be enrolled in Chorus, Band or Orchestra in order to participate in the Madrigal Singers. Auditions are held within the first weeks of the school year.

A CAPPELLA GROUPS (extra-curricular, student lead)
PDS traditionally has an all-female and an all-male a cappella group. These groups rely heavily on student leadership and work in conjunction with the music faculty. Repertoire is generally contemporary pop. Auditions are held within the first weeks of the school year.

MUSICAL PRODUCTION (extra-curricular)
Students (grades 9-12) interested in musical theater can audition to be part of the annual musical production, which is a joint project of the Theater, Dance and Music faculty in the Upper School. Rehearsals and performances run throughout the winter term. Auditions are held in November each year.

PRIVATE LESSONS (extra-curricular, additional fee)
Private lessons are available in piano, voice, guitar and all string, woodwind, brass, and percussion instruments. PDS has an excellent Adjunct Music Faculty comprised of qualified instructors in each instrument. There is an additional fee for private instruction. Details about the Private Lesson Program, including fees, scheduling, and instructor bios can be obtained from the Music Department.

THEATER

THE PERFORMER IN ACTION (minor)
Musical theater, stage combat, physical theater, movement improvisation, the basics of dance technique, and acting are taken from beginning stages through to production stage in this year-long course. This comprehensive view of theater, being comprised of voice and body, will allow each student to be prepared to encounter any opportunity that may surface in the theater world. Stan Cahill, theater artist-in-residence, leads students in the basics of acting while Ann Robideaux, PDS choreographer and dance teacher, hones in on essential dance skills and movement for the actor.

ADVANCED ACTING (minor)
This class introduces elements of naturalistic acting using improvisation, text analysis, and Stanislavski-based rehearsal exercises. The work of various contemporaries of Stanislavski, including Michael Chekov and Uta Hagen, is used to develop skills in characterization and inner life. Students will explore a range of influential works of contemporary theater, while also exploring on-camera technique. Students will also have the opportunity to visit a major NYC production.

Requirements: Completion of The Performer in Action or permission of instructor

INDEPENDENT STUDY
This option is available to students with specialized or advanced areas of interest. Proposals are subject to faculty approval. Previous areas of study have included topics ranging from Theater of the Absurd to computer-assisted design for the stage.

THEATER PRODUCTION AND DESIGN (extra-curricular)
Students have the opportunity to work in all aspects of theater production, including lighting, sound, costumes, props and stage management. Students will work with professional designers and technicians, using all aspects of the design and equipment. Students also support assemblies, US productions, and visiting artists and serve as mentors to MS technicians. Student crews meet in the afternoons and at other scheduled times. (Year round)
FALL PRODUCTION (extra-curricular)
Students experience all aspects of mounting a full-scale theater production. Cast members focus on character development, intentions and obstacles, stage composition and memorization. Student crews are responsible for running the show during performance. An audition is required. (Fall term only)

MUSICAL PRODUCTION (extra-curricular)
This is the largest and most complex Main Stage production. Students work with guest artists while refining and building on performance skills. Students will also gain professional dance training as well as experience in solo/choral singing. High quality production values provide opportunities for advanced work by student crews. An audition is required. (Winter term only)

PERFORMING ARTS FESTIVAL (extra-curricular)
This is a three-day marathon of shorter performances, many written, directed, and produced by students. Faculty and Guest Artist participation is also a valued part of the event. (Spring term only)

TABLE OF ARTS OFFERINGS: 2 year-long arts minors or 1 year-long art major are required for graduation.

<table>
<thead>
<tr>
<th>Course</th>
<th>Major/Minor</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Architecture</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Honors Geometric Design</td>
<td>Minor</td>
<td>Requires concurrent enrollment in Honors Studio Geometry</td>
</tr>
<tr>
<td>Advanced Architecture II</td>
<td>Major</td>
<td>Intro to Architecture</td>
</tr>
<tr>
<td>Advanced Architecture III</td>
<td>Major</td>
<td>Advanced Architecture II</td>
</tr>
<tr>
<td>The Master’s Studio: Architecture IV</td>
<td>Major</td>
<td>Advanced Architecture III &amp; permission of instructor</td>
</tr>
<tr>
<td>Intro to Ceramics</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Advanced Ceramics</td>
<td>Major</td>
<td>Intro to Ceramics</td>
</tr>
<tr>
<td>Materials and Processes</td>
<td>Major</td>
<td>Intro to Ceramics</td>
</tr>
<tr>
<td>Intro to Fine Art</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Advanced Fine Art</td>
<td>Major and Minor</td>
<td>Any introductory visual/design art course</td>
</tr>
<tr>
<td>Intro to Furniture Design</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Advanced Furniture Design</td>
<td>Major</td>
<td>Intro to Furniture Design or Intro to Architecture</td>
</tr>
<tr>
<td>Intermediate Sculpture</td>
<td>Major</td>
<td>Any introductory visual/design art course</td>
</tr>
<tr>
<td>Intro to Video and Media Arts</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Advanced Media</td>
<td>Major and Minor</td>
<td>Intro to Video and Media Arts</td>
</tr>
<tr>
<td>Intro to Photography*</td>
<td>Minor</td>
<td>None – foundation course</td>
</tr>
<tr>
<td>Advanced Photography – Lighting and Printing*</td>
<td>Major and Minor</td>
<td>Intro to Photography</td>
</tr>
<tr>
<td>Advanced Photography – Fine Art*</td>
<td>Major and Minor</td>
<td>Intro to Photography</td>
</tr>
<tr>
<td>Advanced Photography – The Photo Essay*</td>
<td>Major and Minor</td>
<td>Intro to Photography</td>
</tr>
<tr>
<td>Intro to Music Theory</td>
<td>Minor</td>
<td>None</td>
</tr>
<tr>
<td>AP Music Theory</td>
<td>Major</td>
<td>Intro to Music Theory</td>
</tr>
<tr>
<td>Music Technology</td>
<td>Minor</td>
<td>None</td>
</tr>
<tr>
<td>Chorus</td>
<td>Minor</td>
<td>Previous experience/audition</td>
</tr>
<tr>
<td>Orchestra</td>
<td>Minor</td>
<td>None – other than some instrumental proficiency</td>
</tr>
<tr>
<td>Band</td>
<td>Minor</td>
<td>None – other than some instrumental proficiency</td>
</tr>
<tr>
<td>The Performer in Action</td>
<td>Minor</td>
<td>None</td>
</tr>
<tr>
<td>Advanced Acting</td>
<td>Minor</td>
<td>The Performer in Action</td>
</tr>
<tr>
<td>Advanced Dance</td>
<td>Minor</td>
<td>Permission of instructor</td>
</tr>
</tbody>
</table>

*N.B. All photography courses have a lab fee of $150.00.

HEALTH AND PHYSICAL EDUCATION

PHYSICAL EDUCATION All students are required to take six credits of physical education, one of which must be Health. A student may choose to fulfill the other five credits of this requirement either by taking regularly scheduled physical education classes or by joining athletic teams. Some of the activities that are available include: strength training, PE dance, and yoga. In addition, an adventure education course offers students a non-traditional approach that includes a combination of individual and group challenges in an outdoor setting. Note that not all options are available every term. Also, PE Dance is designed for beginning and intermediate level dance students. PE Dance is highly recommended for students interested in auditioning for the upper school musical or continuing on to the Advanced Dance class here at PDS.

HEALTH EDUCATION As one of their six credits of physical education, students are required to take one semester of Health; this is usually taken during the tenth grade year. This course is required for graduation; therefore, a student who enters PDS after the sophomore year will need to be scheduled into this class unless he/she has completed an equivalent course at his/her previous school.

PE INDEPENDENT STUDY The Health and Physical Education Department will accept and evaluate applications to substitute outside activities in place of regular physical education classes for up to two terms of the school year. These activities must be supervised by an instructor/coach and not already be offered at PDS. Additionally, 10 hours of instruction are required weekly and progress report log sheets must be completed and submitted to the department head every other week. A student who is enrolled in a pre-professional dance program may apply for an exemption for a third trimester of PE. For more information contact the department chair, Mark Adams.

INTERSCHOLASTIC TEAMS The PDS athletic department administers all varsity and sub-varsity teams for boys and girls. Interscholastic competition begins in sixth grade and continues through upper school. PDS fields 52 teams in 15 sports. By competing with other schools, students broaden their outlook while matching their physical skill and knowledge of game strategy against their peers. Coaches instill the values of team play, good sportsmanship and respect for rules and authority.
GIRLS’ TEAMS Fall: field hockey, soccer, tennis Winter: basketball, ice hockey, volleyball Spring: lacrosse, softball

BOYS’ TEAMS Fall: soccer Winter: basketball, ice hockey Spring: lacrosse, baseball, tennis

COED TEAMS Fall: cross-country Winter: fencing, squash Spring: golf, figure skating

SIGN-UP PROCEDURE Students sign up for PE/Health courses and athletics at the same time that they sign up for all of their other courses, though they may make changes later as space permits.

BRIDGES

The Bridges program is a three-quarters credit leadership course for seniors and a mandatory year-long program for seventh graders. Leadership training begins upon selection in the spring, continues through a three-day intensive retreat the summer prior to senior year, and extends throughout the academic year in the form of a leadership training seminar that meets three days of the seven-day cycle. Additionally, the Bridges mentors meet with their 7th grade groups once per cycle in order to prepare them for a successful and balanced experience transitioning from childhood to adolescence and young adulthood. Content covered includes lessons in social emotional learning (SEL), a proven positive predictor for student success. Bridges class serves as a platform for discussing relevant topics in an inclusive, supportive, and emotionally intelligent manner.

PEER LEADERSHIP TRAINING

Peer Leadership Training is both a three-quarters credit leadership course for seniors and a mandatory year-long orientation program (Peer Group) for all freshmen. Eighteen seniors are selected as peer group leaders and are trained by faculty supervisors in group dynamics and leadership techniques in a class that meets three periods per cycle. The student training begins in the late summer with a three-day overnight retreat. The program for freshmen begins with an all-day retreat away from school to acquaint them with each other and with program objectives. Throughout the academic year, peer leaders conduct regular discussions with freshmen on topics such as peer pressure, academic concerns, drug and alcohol abuse, and boy/girl relationships. Peer leaders sponsor a parent/student get-together to discuss conflict mediation between parents and adolescents.

COMMUNITY SERVICE

By September of the senior year, all students must complete a minimum of 50 hours of service, the majority of which must be focused within a single area of concentration. While opportunities to serve with local agencies or at individual events are regularly posted and announced by members of the Community Service Committee, which oversees and promotes the program, students are actively encouraged to develop and specifically guided in carrying out their own projects aimed at addressing a genuine need, whether in the neighborhood, state, country, or world around them. A central goal of the program is to help students better appreciate both the value of selflessly sharing their time and talents and the natural interconnectedness of our lives, in short, to enrich the human connection. See the school website at http://www.pds.org for more details.

EXCHANGE PROGRAMS

PDS offers upper school students in their sophomore and junior years a remarkable array of opportunities to pursue studies off-campus, both through semester schools and study abroad programs. PDS also offers admission to one foreign exchange student in their sophomore or junior year. Students who are interested in participating in these off-campus opportunities, as well as PDS families interested in hosting a foreign exchange student, should contact one of the Exchange Program Coordinators, Erik Hove and Lauren Gleeson, via email at ehove@pds.org and lgleeson@pds.org respectively.

SCHOOL FOR ETHICS AND GLOBAL LEADERSHIP

School was founded in 1995 by Molly and Christopher Barnes in the spirit of combining wilderness education with traditional academics. Located in Leadville, Colorado, the HMI Semester offers 10th and 11th grade students the opportunity to live, travel, and study in the mountains of central Colorado and the canyons of southeastern Utah. Students spend five weeks over the course of the semester on three wilderness expeditions that focus on leadership and community-building and twelve weeks on campus completing a standard junior year curriculum. Each semester up to 42 students are offered admission. For more information, please visit the HMI website: http://www.hminet.org/HMIsemester.

SCHOOL FOR ETHICS AND GLOBAL LEADERSHIP

Located in Washington, DC, and established in 2006, the School for Ethics and Global Leadership is a semester school for high school juniors. The school’s residential facilities are located on Capitol Hill right behind the Supreme Court, and its academic building is a block from Dupont Circle. Its rigorous academic program focuses on ethical thinking skills, leadership development, and international studies. In addition to completing a standard junior year curriculum, students take an ethics and leadership course. The program features visits to and by prominent speakers in such fields as foreign policy, public service, diplomacy, law, and humanitarian aid. Each semester is sixteen weeks long, and up to 24 students are offered admission for each. For more information, please visit the School for Ethics and Global Leadership website: http://schoolforethics.org/.
STUDY ABROAD PROGRAMS

SCHOOL YEAR ABROAD
Founded in 1964, School Year Abroad is an academic program which places American high school juniors, seniors, and post-graduates in 4 countries, including China, Italy, France, or Spain, for a year. Students intensively learn the respective language of their country and live with a host family. The program includes extensive cultural immersion and a number of select courses taught in the native language. Requisite subjects, such as math and English, are taught in English. Extracurricular activities and organized travel round out the year. The program provides academic advisors and college counseling services and administers the AP, SAT, SAT II, and PSAT tests at each school. Each year SYA brings around 60 juniors and seniors to each of its locations around the world. For more information, please visit the School Year Abroad website: http://www.sya.org/

FOREIGN EXCHANGE STUDENT
Most years PDS serves as a host school to one foreign exchange student. Foreign exchange students are selected from a pool of ASSIST scholars. ASSIST is a non-profit organization founded in 1969 with the mission to discover, select, place, and support outstanding international students in American independent schools. Since 1987, we have hosted 21 ASSIST scholars from Germany, Spain, Hungary, the Czech Republic, Sweden, and Australia. Because of the high academic caliber of the exchange students and the generosity of PDS families who have opened their homes to these young men and women, this program has been a success. Any PDS family is eligible to serve as a host family, although preference will be given to families with children in the Upper School. If you are interested in hosting an ASSIST scholar, please contact one of the Exchange Programs Coordinators, Erik Hove and Lauren Gleeson, via email (ehove@pds.org and lgleeson@pds.org respectively). For more information, please visit the official website for ASSIST: http://www.assist-inc.org/.

ADDITIONAL INFORMATION
PDS encourages students to attend the programs listed above; however, students may ask the school to consider other programs as well. Upon further review of such programs, decisions will be made on an individual basis in consultation with the Head of Upper School. Special consideration will be given to study abroad programs endorsed by the Council of Standards for International Educational Travel (CSIET), an accrediting body to which PDS belongs. While PDS tuition may be waived for students participating in all long-term programs, no more than 3 students can receive such financial consideration at one time; such decisions will be made by PDS on a first-come/first-served basis.

SENIOR PROJECT
Each senior is required to arrange for an independent project, which will take the place of courses other than AP courses or courses required for graduation (such as a religion course) during the last four weeks of the third trimester. Faculty advisors guide students to create projects that suit individual interests and needs. Senior Projects include a wide variety of internships, research projects through the school or local universities, and community service organizations. Seniors have also chosen to write and produce plays, produce films, or perform musical concerts. All projects include a presentation to a committee of students and teachers plus a written report. Successful completion of the Senior Project is a requirement for graduation. For more information, contact Elizabeth Monroe.
CURRICULAR CHOICE FROM A COLLEGE COUNSELING PERSPECTIVE

WHAT COURSES SHOULD BE TAKEN FOR COLLEGE?

While many factors enter into college admissions decisions, an applicant’s academic performance is extremely important. When colleges evaluate a high school transcript they primarily consider two factors: the rigor of the program of study and a student’s level of achievement. This means that students should take the most demanding program that they can comfortably handle, balancing rigor and achievement. With the wide range of offerings at Princeton Day School, students can explore new and interesting avenues. The College Counseling Office encourages students to follow their curiosities while fulfilling their PDS diploma requirements and meeting, if not exceeding, colleges’ entrance requirements. In addition, before requesting to enroll in six majors, we encourage students to recognize that doing well in five courses is far better than being spread too thin and struggling in six.

WHAT COURSES ARE DESIRABLE WHEN APPLYING TO COMPETITIVE COLLEGES?

In general, most four-year colleges expect to see the following classes on a high school transcript.

- 4 years of English
- 3-4 years of mathematics, or through pre-calculus
- 3 years of one modern or classical language (ideally through level IV)
- 3 years of science (at least 2 lab courses)
- 3 years of history/social science
- 1 year of fine arts

Keep in mind that these are the typical minimum requirements. For many colleges, taking four years of as many core areas as possible is often most desirable. During their senior year, some students may choose to forgo a fourth year of science, history, or language in order to "double up" in a favorite area. While this can make sense for an individual, we still strongly recommend all seniors take courses in at least four of the five core curricular areas (English, math, science, history, language). We also recommend taking math and English for all four years.

WHAT IS THE TYPICAL CURRICULUM FOR EACH GRADE LEVEL?

The typical expected course load is five "core" majors (plus one minor, occasionally two). Students’ advisors, the department chairs, deans, teachers, and the college counselors work together to help students build an academic schedule that incorporates the appropriate mix of challenge and balance across core academic disciplines and the arts. Please refer to the individual department sections of this guide for possible course sequences in each grade level.

WHAT ARE SPECIALIZED PROGRAMS LOOKING FOR?

While most PDS students enroll at liberal arts institutions, many pursue a focused study in a specialized field in college. The appropriate high school curriculum for these programs may look a bit different. Be sure to meet early on with your advisor and the head of the appropriate department for suggestions on how to select those courses that will prepare you best.

Architecture Programs prefer multiple years of architecture at PDS as well as courses in the fine arts. These prepare students to create a required portfolio. Architecture programs vary widely in their requirements, however. For example, some programs desire coursework in math and physics.

Engineering Programs generally require four years of rigorous math and science, including at least basic courses in chemistry, physics, and calculus. Many programs require SAT Subject Tests in math and science for admission. Coursework in computer science is also a plus.

Art, Drama, or Music Programs can vary significantly in their requirements. Conservatory programs, which focus almost entirely on the arts, primarily consider an audition/portfolio in making admissions decisions. However, many comprehensive universities and small colleges also have exceptional programs in the arts. These colleges require the same demanding courses and grades for all applicants and may also allow students to submit an arts supplement.

HOW DO SELECTIVE COLLEGES VIEW ARTS COURSES TAKEN AT PDS?

We offer an unusually rich and diverse array of arts courses at both the major and minor levels. Art Schools and colleges view majors in the arts as core courses and put a great deal of academic consideration into these courses. However, other colleges generally view performing and visual arts classes, as well as Peer Group and Bridges, as extremely valuable and interesting additions to a curriculum but not as replacements for the "core" building blocks.

WHAT ARE AP CLASSES AND ARE THEY IMPORTANT?

AP (Advanced Placement) classes follow a nationally prescribed curriculum that culminates in a comprehensive exam in May. If one does well on an AP exam (usually a 4 or a 5), some colleges grant credit, placement into a higher-level class, and/or exemption from college distribution requirements. AP courses are considered college level classes at your school, use college level texts, have college level expectations, and demand a college level commitment. Note, however, that AP courses are just one way that a student can add challenge to a course load given PDS's rich array of demanding classes with and without the AP label. Different AP classes have different prerequisites; please carefully review the prerequisites listed in each course description.

Also, at PDS, all students enrolled in an AP class are required to take the corresponding AP exam.

Please note that there is no course called “AP English”. All of our junior and senior English electives are taught at the advanced level. In addition, some students still choose to take the AP English Literature exam. Students interested in pursuing this option should talk to the English Department Chair.

AP scores are not sent to colleges by PDS and are not college admission tests. However, students may include them on their applications if they choose.

CLASSES AT PRINCETON UNIVERSITY

Princeton University allows local high school juniors and seniors to take classes in math, biology, physics, chemistry, modern/classical languages, computer science, and music – if they have completed all the possible course work at PDS in the field of interest, received no grade below an A- in those courses, and have an overall GPA of 3.5-4.0. Additionally, the student must take either the AP exam or the SAT Subject Test and achieve a minimum score set by the university.

WHAT IF I HAVE MORE SPECIFIC QUESTIONS ABOUT COURSE SELECTION AND COLLEGE ADMISSIONS?

The information above is a very brief overview. After speaking with the student’s PDS advisor first, we encourage students and parents to reach out to the College Counseling Office at PDS if they have questions related to course selection and the college admissions process.