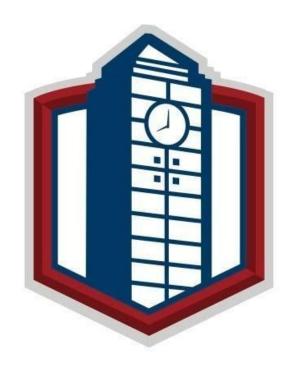
Upper School Course of Study 2020-2021



Academic Program

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Introduction

Since choosing courses next year and beyond constitutes the basis of a good education, students should plan each year as part of a larger course of study, remembering that long-range goals may influence or constrain choices for the next year. Breadth, depth, and rigor are important considerations, but so is balance. Students should select courses that are challenging and stimulating, yet manageable. Courses taken should also be ones that allow students to pursue areas of interest while being introduced to new areas of learning. Students will no doubt change their career goals over the years, but they will preserve their options by taking as broad a range of courses in English, History, Mathematics, Science, World Language, and electives as possible.

Students and parents should read the entire catalogue carefully and recognize that the diploma requirements represent only a minimum level of expectation that Providence Day believes is necessary in a student's education. The following questions need to be considered in the planning process: Do the course selections fulfill the annual course load requirement? Will the courses selected over the high school career fulfill the graduation requirements? Are the courses selected compatible with the student's ability and interests?

Courses students choose represent only the beginning of their education. Often, there is not room to take every discipline each year or even to allow for every exciting course over the Providence Day career. College will offer students the opportunity to explore a broader range of courses, provided they have prepared themselves as well as possible with a strong foundation at Providence Day School.

Mission/Philosophy

Mission Statement

Providence Day exists to inspire in its students a passion for learning, a commitment to personal integrity, and a sense of social responsibility.

School Philosophy

Providence Day School centers all goals and efforts on the comprehensive development of the student. The school provides a strong college preparatory education and guides growth through an appreciation for aesthetic, cultural, and moral values. The school creates an environment that encourages the importance of education and the value of approaching life with confidence and enthusiasm. Parent involvement and support of the efforts of the school are essential to each student's success. Moreover, the school relies on the larger Providence Day family, including trustees, parents, students, alumni, and friends of the school as a powerful team to achieve its goals.

Teachers at Providence Day expect students to reach their full academic potential to develop the ability to question critically, to learn openly, to listen actively, to think creatively, and to communicate effectively. Advanced and individualized instruction provide students with the knowledge and incentive to excel in a college setting as well as in their chosen careers.

Students at Providence Day recognize that they are preparing for a future of leadership and responsibility. The faculty and staff realize that, while these students require challenging, stimulating academic programs, a wide range of enrichment opportunities enables them to become responsible, sensitive, mature young adults with diverse abilities and interests. Therefore, Providence Day provides activities of a varied nature at all grade levels to aid students' appreciation of their culture, community, and world. A strong program of athletic competition also provides students at Providence Day with opportunities for rich choices in service and leadership. Graduates of Providence Day are enriched as individuals, academically confident to face the challenges of additional educational opportunities. Lasting friendships and personal bonds with students and faculty are the result of the strong commitment shared by everyone in the school family to help students continue to achieve.

The Providence Day curriculum is strongly rooted in the liberal arts tradition. At the same time, it is open to change as departments review and revise their offerings based on the skills students will need in the twenty-first century.

Class sizes remain low to meet the needs of an able and active student body. Students spend five to six hours each day in classes and should expect to spend two and a half to four hours per day outside of class in preparation. An effective education cannot be measured by the amount of time expended, of course, but a lasting education requires considerable effort on the part of students, and those who attend Providence Day need to have high expectations of themselves.

Normally, students at Providence Day enroll in at least five academic courses each semester while taking one or two non-academic elective courses. Some students, usually seniors, who face an unusually demanding semester, are occasionally advised to take four courses, provided at least three are Advanced Placement. The academic year at Providence Day consists of thirty-six weeks.

While Providence Day's classes begin at 8 a.m., teachers are available from 7:45 a.m. In this tradition, students may find teachers in their classrooms and office areas each day of the week should they have questions or wish to discuss an academic issue. Teachers frequently encourage and require students to attend morning, lunch, or after-school review or discussion sessions.

Each student has an Advisor; this member of the faculty has the responsibility of guiding the student in shaping a well-thought-out, long-term academic program incorporating both breadth and depth. In planning a program of studies, the student's

needs and aspirations are carefully considered, in addition to the necessity of meeting all of the diploma requirements. These needs may include college and career plans, strengths and weaknesses as revealed by previous performance and aptitude tests, and character and personal development.

Advisors prepare a written selection of courses for each advisee; a copy of this selection is sent home to parents in March. Advisors welcome information and suggestions from parents concerning student course selection. In addition to the Advisor, the Upper School Head approves the student's course selection.

Students have the opportunity to select Advanced Courses that have been determined by the departments as being above average in difficulty. These courses are given extra weight (five points) when computing a student's grade point average, determining honor roll status and membership in the National Honor Society. Advanced Geometry, Advanced Algebra II/ Trigonometry, Advanced Precalculus, Advanced Analysis, Advanced Calculus, Advanced Differential Equations and Advanced Linear Algebra, Advanced Calculus III and Calculus Topics, Advanced Data Structures in Java, Advanced Global Leadership, Advanced European Literature, Advanced Current American Literature, Honors Band, Honors Jazz Ensemble, Honors Chorus, Honors Orchestra, Level 6 of German, Levels 6 and 7 of Spanish, French, and Mandarin Chinese, and Levels 5 and 6 of Latin are considered advanced. Students making below a 70 in an advanced course do not receive any extra weighting.

Students of superior promise may prepare for the AP examinations of the College Entrance Examination Board by taking special AP courses or a suitable program of upper-level electives. AP programs are currently offered in English Literature and Composition, English Language and Composition, Calculus AB, Calculus BC, Statistics, U.S. Government and Politics, Computer Science, Environmental Science, Physics, United States History, World History, European History, Psychology, Human Geography, Microeconomics, Macroeconomics, Biology, Latin, Spanish Language, Mandarin Chinese Language and Culture, French Language, German Language, Studio Art, Art History, Chemistry, and Music Theory. Students who take an Advanced Placement course must purchase their books and take the AP exam at the end of the year. The cost of the exam is approximately \$94. These courses are given extra weight (ten points) when computing a student's grade point average. Students making below a 70 or below in an AP or Advanced Placement course do not receive any extra weighting.

Students may also choose to delve deeper into global leadership through the Global Studies Diploma program. This second diploma explores a focused curriculum in global studies, challenges students to enrich their cultural awareness, and embark on a journey as a global citizen

Graduates, almost without exception, go on to four-year colleges, where they find themselves well prepared. In an environment where excellence is the norm, students challenge each other, and dedicated teachers listen, encourage, and inspire. Students leave Providence Day having learned to think critically and communicate effectively. Students achieve much more than test scores attractive to college admissions offices; they prepare for success in college and beyond. With the help of committed teachers, students learn to take responsibility, overcome barriers, and assume leadership.

Promotion Requirements

Promotion in the Upper School is based on the following criteria:

Entering Grade 10

To have sophomore standing, a student must have earned at least four units of credit, including one unit each of English and math.

Entering Grade 11

To have junior standing, a student must have earned at least ten units of credit, including two units each of English and math, two laboratory science units, and two units of history.

Entering Grade 12

To have senior standing, a student must have earned at least sixteen units of credit, including three units each of English and math, two laboratory science units, two units of history, one unit of World Language and have met the computer literacy requirement.

In order to graduate, a student must earn at least twenty-two and a half units of credit with a distribution of courses outlined in the Graduation Requirements Schedule. In addition, all seniors must successfully complete a senior project.

Graduation Requirements

Students are required to earn a total of twenty-two and one-half (22.50) units of credit during grades nine through twelve and successfully complete a senior project in order to receive a diploma. The number of required units is as follows:

Courses	Units	Comments
English	4.0	One course per semester is required. English I, English II, and either Writing Seminar or AP Language and Composition are required.
Mathematics	4.0	Algebra I, Algebra II, Geometry, and one year of math beyond Algebra II (usually Precalculus) are required.
Laboratory Science	3.0	Three years of a laboratory science are required: Physics, Chemistry, and Biology.
History	3.0	Three years of history courses are required. Students must take Global Civics, World History or AP World History, and U.S. History or AP United States History. Students entering Providence Day after grade 9 are not required to take Global Civics, unless seeking the Global Studies Diploma.
World Language	2.0	Two years of the same language in grades 9-12 are required. It is strongly recommended that students who are proficient and interested in a language continue beyond the requirement.
P.E	2.0*	One year of physical education/health is required in grade 9. Students must also take physical education, one year or two semesters, in grades 10-12. *A student may request to exempt one-half (1/2) unit of physical education by having participated on a junior varsity or varsity level PDS athletic team(s) for three or more seasons while in grades 9 through 12. In addition, a student must successfully complete the PDS Physical Fitness Test with 300 or more points. Exemption must be completed by the start of second semester senior year.
Fine Arts	1.0	One unit must be earned in Fine Arts. One year or two semester courses may be taken in Art, Band, Chorus, Orchestra, Theatre, Yearbook, Photography, or AP Art History.
Computer Science	0.5	At least one semester Computer Science course must be taken in grades 9 - 12.
Electives	3.0	Any course taken beyond the required units listed above will be given elective credit. <u>Global Online Academy</u> courses may meet this requirement. A student may count a maximum of two units in physical education and a maximum of two units in fine arts (Art, Chorus, Band, Theater, Yearbook, Orchestra, Photography) toward

Global Studies

PDS Global Studies Diploma

Mission Statement

Our purpose is to promote within our students an ability to appreciate and value the differences among people locally and globally, and help them develop the knowledge, skills, and character dispositions to become active global citizens.

Goals:

- Understand commonalities among all cultures.
- Appreciate new knowledge systems and ways of thinking about the world.
- Demonstrate a high proficiency in a spoken world language.
- Understand and promote the value of living to sustain the planet.
- Understand the connectedness and complexity of global issues.
- Demonstrate tolerance and an active empathy towards others in the world.
- Develop a genuine concern for world problems and a commitment to finding solutions.

Global Studies Diploma

The Providence Day School Global Studies Diploma program (GSD) allows students in grades 9-12 to choose a curriculum and a set of experiences that focus on developing successful and responsible global citizens. Students who earn the GSD will have the knowledge, skills, and values to understand and act purposefully in the local-global context. The GSD is in addition to the Providence Day School Diploma.

Joining the GSD Program:

- Students in 8th grade may sign up for the <u>GSD program</u> at the end of their spring semester.
- Freshmen should sign up prior to the end of the freshman year in order to facilitate schedule planning.
- Sophomores may sign up for the program provided the student's world language level is sufficient to meet the world language requirement before graduation successful completion of Year 4.
- Students who travel abroad, host an international student, or attend global events

may be able to earn global points after they join the program provided the experience occurred within the previous six months of joining.

Students must maintain a grade of B- or better in all global studies courses taken to complete the GSD. A student who receives less than a B- may be put on probationary status by the Global Education Program Office. A review by the Academic Committee will determine probation if a global studies student earns a grade of less than a B- in any global education course. If placed on probation, a student will have the next academic semester to demonstrate academic success at a B- or higher level. At the end of that semester, the Academic Committee reviews the academic standings of the student's progress. If a student does not maintain an academic standard consistent to a B- or higher in all of the courses taken to complete the Global Studies Diploma including Global Leadership, he or she may be removed from the GSD program. In addition, a student who earns a D or below in a global studies course taken to complete the Global Studies Diploma will be dropped from the program without a probationary period.

CURRICULUM REQUIREMENTS

Required Courses

Students are required to take the following courses while in grades 9-12:

- Global Civics (1 year/1 credit)
- World History (1 year/1 credit) or AP World History (1 year/1 credit)
- Comparative Government and Politics (semester/0.5 credit)
- TWO Global Issues courses from any of the following six:
 - Global Issues: Europe and the Americas (semester/0.5 credit)
 - Global Issues: Middle East and North Africa (semester/0.5 credit)
 - Global Issues: Genocide (semester/0.5 credit)
 - Global Issues: Asia (semester/Summer term 0.5 credit)
 - Global Issues: Africa (semester/Summer Term/0.5 credit)
 - Global Issues: Themes and Challenges (Summer term/0.5 credit)
- Global Leadership, Advanced (Spring semester/0.5 credit) See below for details.
- World Language: A GSD student must take ONE world language ALL four years in upper school AND satisfactorily complete at least through Year 4 of that language. The student may select Chinese, French, German, Spanish, or Latin.

A GSD student may earn 1.0 GSD elective credit (see below) by satisfactorily

completing a second world language (not to include Latin) through Year 2 but only if the student satisfactorily completes Year 5 of the first world language. Students who complete a world language through Global Online Academy (currently Japanese or Arabic) may request to have that language count toward their second world language elective credit.

Global Leadership Course (Advanced) This course develops and directs global leadership thinking, skills and action. Components include:

- A major research and solutions essay (20+ pages) that investigates and analyzes a world or regional problem of genuine interest and develops and justifies a realistic solution.
- The study of leadership styles and their impact on group dynamics
- Group travel to Washington DC to investigate governmental and non-governmental offices that address global challenges
- Organization and participation in a mock convention or role-playing activity to address a global issue Imes End of senior year defense of the student's research/solutions paper, reflection on the course of global study, and articulation of what it means to be a global citizen after graduation before a panel of faculty and staff

In the fall of the senior year, each student will meet to define one's global issue for the Global Leadership course.

Elective Courses

Two and one-half credits (2.5) are required from any of the following courses while in grades 9-12:

English

- Global Literature Topics (semester/0.5 credit)
- Modern Dramatic Literature (semester/0.5 credit)
- Literature of the Other: Marginalized in America (semester/0.5 credit)
- Graphic Novels (semester/0.5 credit)
- Shakespeare (semester/0.5 credit)
- AP English Literature (1 year/0.5 credit)

History

- Comparative Religions (semester/0.5 credit)
- Social Entrepreneurship (semester/0.5 credit)
- Economics of Development (semester/0.5 credit)

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- Global History of the 1960s (semester/0.5 credit)
- Crises of Nationalism: The US Civil War and the World in the 1860s (semester/0.5 credit)
- Human Rights and Reconciliation:South Africa (semester/Spring Break/0.5 credit)
- World Politics (semester/0.5 credit)
- AP European History (1 year/1 credit)
- AP Human Geography (1 year/1 credit)
- AP Macroeconomics (semester/0.5 credit)
- Global Issues course beyond the two required (see "Required Courses" above) (semester/0.5 credit)

Science

- AP Environmental Science (1 year/1 credit) OR
- Bioethics/Biotechnology (semester/0.5 credit)
- Environmental Studies: Rethinking Sustainability in the 21st Century (semester/0.5 credit)
- Australia: The Global Impact of Environmental History (Summer term/0.5 credit)

Visual & Performing Arts

- AP Art History (1 year/1 credit)
- (Re)Act: Theatre and Social Change (semester/0.5 credit)
- Upper School Chorus (year/one-time 0.5 credit)
- Studio Art in Spain (Summer 0.5 credit)

World Language

• Second Modern Language (satisfactorily completed through Year 2) (1 credit). Must satisfactorily complete Year 5 of the first world language.

Math

• Math for the Social Sciences (semester/0.5 credit)

Physical Education

• International Games (semester/0.5 credit)

Global Online Academy

A GSD student should register for one of these courses as normal to the registration process. The student must get the approval and signature of the Upper School Head. The application form for a GOA class may be found at <u>this link</u>

Formal registration for online courses will begin in April. To learn more, please go to

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https://globalonlineacademy.org/what-we-do/student-program/student-courses

- Arabic Language Through Culture I (Year/1 credit)
- Japanese Language Through Culture I (Year/1 credit)
- Global Health (Fall Semester/0.5 credit)
- Comparative Religions (Fall Semester/0.5 credit)
- 9/11 in a Global Context (Fall Semester/0.5 credit)
- Advanced Topics in Economics (Fall Semester/0.5 Credit)
- Genocide and Human Rights (Fall or Spring Semester/0.5 credit)
- Applying Philosophy to Modern Global Issues (Fall Semester or Spring Semester/0.5 credit)
- International Relations (Semester 0.5)
- Comparative Politics (Spring Semester/0.5 credit)
- Macroeconomics (Spring Semester/0.5 credit)
- Climate Change and Global Inequality (Spring Semester/0.5 credit)
- Entrepreneurship in a Global Context (Spring Semester/0.5 credit)

A GSD candidate course selection from the Global Online Academy must be:

• a course not offered at Providence Day School.

• a course approved as a global course defined by the Global Education Office.

The course will appear on the student's transcript and will fulfill a GSD elective and a graduation elective credit.

A minimum GPA of 2.5 is required for approval to participate in a Global Online Academy course.

The course may be inserted into the regular academic day schedule or may be an additional course to the seven courses allowed in a schedule. Students are encouraged to allocate time in the school day for this course.

Acceptance into a course is prioritized by seniors, then juniors, then sophomores, and finally freshmen.

The Upper School Office and the Global Education Office have the final approval of any student seeking to take a Global Online Academy course.

GLOBAL POINTS

In addition to global curriculum requirements, a Global Studies Diploma (GSD) student must earn at least 750 global points before he or she can receive the GSD diploma. Global points must be earned in TWO categories: (1) extracurricular activities, and (2) global cross-cultural experience.

EXTRACURRICULAR REQUIREMENTS

GSD candidates must participate in a minimum of THREE of the following activities EACH YEAR that they are in the program. Please see "Global Points Requirements" on the <u>Global Education page</u> of Charger Commons for details about the number of global points each activity can earn.

- Global Speakers-type Presentations (attend at least THREE to count as ONE activity)
- PDS Global Speaker Series
- World Affairs Council Charlotte (WACC)
- Great Decisions Series
- Other global issues-type presentation (at a local college, church, or other institution)
- Model United Nations conferences
- Global Visitors Luncheons
- WorldQuest (WACC sponsored)
- Charger Global Challenge (at PDS)
- Global-type PDS club events (i.e. International Club, Girls Aid, Students for South Africa)
- Blog Posts: global issues and comments to global issues blog posts (see below)
- Global Studies Diploma Meetings
- Global Book Club (spring for juniors only)
- Global Week (every other year)
- GSD Student Advisory Board
- NewGen Peacebuilders Program (12 weeks in spring, limited to 6 students by application)
- Passport program (attendance and participation each semester in two area international events such as international-type festivals)
- Other event opportunity (announced by the Global Education Office or faculty member)
- Self-defined event (with prior approval)

Students are required to submit a written summary-reflection for some of the above activities. See specific requirements on the Global Education webpage of Charger Commons.

Blog posts: A global issues blog post may be written in response to an appropriate Table of Contents YouTube video, TED video, blog post from a non-PDS online source, or a newspaper article. All global issues posts require: (1) a link to the source you are responding to (2) an introduction about the importance of the post (3) be at least one long paragraph (can be longer) and (4) your view of the issue and the author's approach to the issue e.g. do you agree with the position taken in the post?

ALL summary reflections, blog posts, and Global Journals MUST be posted to a student's blog site in order to receive global points.

You can also receive Global Points for commenting on another student's post provided it is relevant, constructive (needs to help clarify, add to, support, or politely critique), and thoughtful (non-personal). Blog posts and comments that fail these requirements will be taken down and the student will be emailed.

GLOBAL CROSS-CULTURAL EXPERIENCE REQUIREMENT

Students are required to fulfill ONE of the activities below before he or she graduates from PDS. Financial aid is available for qualifying students to travel abroad. Completion of a Global Journal* is required for several of the events below to receive global points.

- Short term (usually a maximum of two weeks) hosting of an exchange student at PDS
- PDS student trip abroad with home-hosting (minimum of two nights) as part of the experience
- PDS student trip abroad (without home-hosting)
- Model United Nations trip abroad
- Non-PDS travel abroad (such as with family, church, or other organization-sponsored travel group) (see below)
- Other short-term travel abroad with home- hosting (minimum of 10 days with at least 3 nights home-stay)
- Academic year or a semester hosting an exchange student at PDS
- Semester or study year abroad

*Global Journals: Global Studies Diploma students traveling abroad are required to document and reflect on their travel experience. Students can do so by: (1) completing a Global Journal and posting it on his/her blog. The journal MUST be completed within ONE month after the trip return date OR (2) making an iMovie, a Prezi, or Powerpoint that fulfills the journal requirements AND posting it on the student's blog. This type of project is due no later than THREE months after the trip's return date.

Family, Church or non-PDS Organization Travel Abroad: Points awarded will depend

on the number of days of travel and the type of activities. Student needs to submit a travel itinerary to the Director of Global Education PRIOR to departure so that the student, parent(s), and the Global Education Office have communicated and clarified possible number of global points for the trip. A family trip will receive a maximum of 175 points. Any trip less than 8 days can only receive a maximum of 175 points.

Computer Science

The Computer Science Department prepares students for the fast-paced, technological world they will encounter. The school's computer labs offer students the opportunity for classroom instruction in computer programming and computer applications to help students become computer literate and prepared for college.

Computer-Aided Design with 3D Printing

This course will consist of a basic introduction to traditional mechanical drawing using a computer-aided design (CAD) software package, as well as an introduction to 3D printing. Students will learn to use these sophisticated computer programs as they construct mechanical drawings that can then be printed using the 3D printer. The course will also include an introduction to isometric drawings and full three-dimensional modeling techniques.

Prerequisite: Geometry completed, (Preference will be given to students who have completed Art I) (Semester) Fall Term

Computer Programming with Python

Computers are becoming more and more pervasive in our society and are found in all parts of our lives. Learning to program a computer can be useful, fun, and help you to become a better problem solver. This course is an introduction to computer programming using the Python programming language. This course covers basic programming concepts such as variables, data types, iteration, flow of control, input/output, functions, graphical user interfaces, and event-driven programming. The course will conclude with a 2 week-long programming project, and by the end of the course, students should be able to build a moderately-sized Python program on their own.

No prerequisite: (Semester) Fall Term

Advanced Data Structures in Java (Advanced)

This course is designed for students who have successfully completed APCS A and who are looking to expand their knowledge of the Java programming language. The course content is similar to what is typically covered in a second semester college programming class and will cover concepts of data abstraction and encapsulation including stacks, queues, linked lists, binary trees, recursion, hash maps, and heaps. **Prerequisite**: APCS A (Semester) Fall Term

Game Development with Unity and C#

Game Development w/ Unity and C# is all about starting to learn how to develop video games using the C# programming language and the Unity game engine. Why use C# and Unity instead of some other language and game engine? C# is a really good language for learning how to program, and the Unity game engine is very popular with indie game developers. By the end of the course, students will have created several games from *3D Pong to Pinball to Tank Battle to Role Playing games.* **No prerequisite:** (Semester) Fall/Spring Term

Creating iOS Apps with Swift

This course is designed for students to explore all elements of mobile app development for iOS devices. Students will use Xcode and iOS SDK to learn the basics of the Swift programming language as well as exploring the Cocoa Touch frameworks. Online videos and tutorials will support instruction. Students will have plenty of time for programming practice on lab computers and testing their apps on their own personal mobile devices.

No prerequisite: (Semester) Spring Term

Physical Computing

This course will introduce students to the concepts and practices of engineering interactive systems and environments using low-cost micro-controllers. They will use Arduinos and Raspberry Pis to construct prototypes using electronic components such as buttons, switches, low-cost sensors, displays, LEDs, motors, and wireless communication modules. The possibilities are limitless. After learning fundamental concepts through an introductory assignment, students will create a larger project of their own design. This project will require a high level of critical thinking, problem solving and innovation.

No prerequisite: (Semester) Spring Term

Sustainable Engineering

This course will focus on how to solve complex problems found within the Sustainable Development Goals as described by the United Nations. Students enrolled in this course will work through the design process to identify a problem, research, imagine, plan, create, test and redesign a viable solution. Students will work with community partnerships and learn to collaborate with others in an effort to produce measurable outcomes. This work will be presented at the end of the semester. **Prerequisite:** CAD & 3D Printing or Physical Computing (Semester) Spring Term

Web Application Development

As the demand continues to grow for more Cloud Computing Engineers, students will be exposed to the tools necessary to become a web application developer. Students will design and create static and responsive websites, setup and run a web server, and work with establishing user databases.

No prerequisite: (Semester) Spring Term

AP Computer Science A

This course follows the College Board's Advanced Placement Computer Science syllabus, learning to program in the Java language, and is meant to be the equivalent of a first-semester college course in computer science. The major emphasis of the course is on Java syntax and class structure, problem- solving techniques, object-oriented solution methodologies, algorithms, and data structures. Students learn the context of these subjects through applications of computing.

Prerequisite: Algebra II with a consistent B average or better in all math classes from Algebra II through current math course and department approval. (Year)

AP Computer Science Principles

This course engages students in the creative aspects of the computer science field. Students will develop a range of skills vital to success in subsequent college courses, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. **Prerequisite:** Geometry with a consistent B average or better in all math classes from Geometry through current math course and department approval. (Year)

English

The English Department is committed to teaching students to negotiate meaning, through the reading and analysis of literary art and through the writing of original prose and, occasionally, poetry. At the heart of our curriculum is linguistic analysis: when we read closely, we analyze others' language; when we write with care, we analyze our own (and our classmates'); and, whether in the midst of a discussion of literature or of the drafting of an essay, when we focus on grammar, we analyze sentences. Furthermore, a guiding assumption for every English teacher is the correlation between the quality of thought and writing. Ultimately, though, what occurs in English classes has to do with no less than understanding oneself and one's place in the world, a process that tends to swing between delight and discomfort. English is required in grades nine through twelve.

English I

Ninth-grade students read, discuss, and write about novels, short stories, and plays including *Macbeth* and *Fences*—with an eye toward developing analytical skills. Characterization and thematic development are the focal points. Writing assignments include essays, journal entries, and a research-based podcast project. Students often work in small groups to discuss writing and topics of interest from the readings. Grammar instruction and review occurs frequently.

Required for graduation (Freshman Year) **No prerequisite** (Year)

English II

Tenth-grade English provides intensive focus on writing skills, through essays that scrutinize literature from a variety of rhetorical approaches. Great poetry and prose of American literature—including such works as *The Great Gatsby* and *Their Eyes Were Watching God*—provide the thematic and stylistic matter out of which students will develop analytical arguments (including writing from research), personal responses, and imitative narratives. Because assignments begin to require attention to varying audience expectations, English II students have more freedom with regard to paragraph and essay organization than ever before. Working often in small groups,

students help each other internalize the notion of audience.

Required for graduation (Sophomore Year) No prerequisite (Year)

Writing Seminar

In this course for juniors, student writing constitutes the text. During the first month, frequent brief essays that draw upon students' own experiences and knowledge provide students with a body of work with which to practice revising and editing skills. Writing Seminar places more emphasis on style and voice than in past courses, providing direct instruction in ways to manipulate one's prose to achieve particular rhetorical aims. Longer essays include researched arguments about the campus community and about a broader issue. Students continue to work with each other to refine their developing sense of what it means to write for an audience. Grammar review occurs throughout.

Required for graduation unless AP English Language and Composition is taken during their junior year.

(Semester) Fall or Spring of Junior Year

Creative Writing

Creative Writing students write original prose fiction and poetry in a workshop setting. The course develops creativity and communication skills as students invent characters and plots, using language that is energetic and vibrant and that achieves desired effects on readers. It instills collaborative values and critical thinking as classmates provide analytical feedback on each other's work. Writing is judged according to overall literary quality (a concept the course rigorously examines) and grammatical consistency. Particularly talented students are urged to enter national contests and to submit their work for publication.

(Semester) Fall or Spring of Junior or Senior Year

English Studies in Film: Philosophy in Film

This course will use the medium of film to investigate how writers and directors explore life's profound questions. To form a basic foundation of knowledge on the subject, students will read excerpts from classical philosophical texts and articles from

contemporary journals. They will then use this understanding as they watch, analyze, and discuss a variety of movies and television programs. Potential topics for discussion include how we define good and evil, moral and immoral behavior, as well as what constitutes the self, existence, and reality. Some of the films and programs that students might analyze include *The Matrix*, *The Truman Show*, and *Batman Begins*. Students will maintain a journal and write several short papers and one summative essay.

(Semester) Fall or Spring of Junior or Senior Year

Global Literature Topics

In this course, students will engage with a variety of genres including short stories, novels, non-fiction, as well as some relevant pop-culture performances. The texts will span diverse countries and cultures, from Asia to the Caribbean, from Africa to Latin America. Through class discussions and analytical writing assignments, students will be taught to think critically about texts that share a general common topic, which may vary from year to year, such as gender, magical realism, or social justice. In doing so, they will sharpen their thinking and expand their awareness of humanity. They will also be asked to reflect on what global citizenship entails, including their own understanding of themselves as global citizens.

(Semester) Fall or Spring of Junior or Senior year (0.5 Global Studies credit)

Graphic Novels

Students will scrutinize texts that combine words and images. Graphic novels--long-form comics--have gained considerable global representation and collaboration, the study of which will allow students to expand the breadth of their literary experience. These visually engaging texts will provide students the chance to read cultural histories from around the world through the sophisticated storytelling of this evolving medium. Moreover, students will design a multimedia work of literary analysis. This hybrid analytical work will lead students toward the collaborative creation of their own mini-comics. We will work through two graphic novels collectively before students begin to select works they will read, write about, and think through individually and in small groups. The course will culminate in students sharing their work and learning through a student-organized in-school convention that will mimic elements of an actual comic-con. (Semester) Fall or Spring of Junior or Senior Year (0.5 Global Studies credit)

Literature of Other: Marginalized in America

What does it mean to be "other" in America today? This course seeks to study not only how some of those deemed "other" have been politically, socially, and economically disenfranchised from rights and power, but also the personal effects of being deemed "other" upon individuals. Students will look at the legal and social history of each group in America as well as each group's status in our country today before turning to the voices, in fiction and non-fiction, of those who experience marginalization. Students will write personal responses and analytical essays.

(Semester) Fall or Spring of Junior or Senior Year (0.5 Global Studies credit)

Modern Dramatic Literature

This course surveys classics in modern drama, highlighting the evolution of the period. The aim of the course is to introduce students to plays that may initially confound and amuse but that ultimately deepen our understanding of the human condition. The syllabus includes translated works, from Ibsen to Ionesco, that explore the loss of individualism, empathy, and meaningful communication. In addition to "performing" each play as reader's theater, students will create individual and collaborative responses demonstrating their understanding of each work.

(Semester) Fall or Spring of Junior or Senior Year (0.5 Global Studies credit)

Shakespeare

Students will spend this course with a broad sampling of Shakespeare's work, including *The Merchant of Venice*, *Othello*, *The Tempest*, *Measure for Measure*, and *Richard III*. We will delve into these rich texts, focusing on both intellectual analysis and potential for various effects on an audience. The structure of the class will rely largely on discussion that emerges from reading the plays aloud together. Students will write responses and analytical papers, and they will scrutinize directing and acting choices in film versions.

(Semester) Fall or Spring of Junior or Senior Year (0.5 Global Studies credit)

African American Literature

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This elective aims to celebrate African American storytelling and its complex role in forming American identity. The class will trace what is a deeply rooted storytelling tradition and some ways in which it manifests in our world today. Students will examine two major texts, one fiction and one non-fiction, and a range of mediums including hymns, sermons, prayers, poetry, popular music, comedy, and visual art. Students will learn to identify patterns of expression and narration rooted in the African American experience that remain vibrant in contemporary culture. (Semester) Fall or Spring of Junior or Senior Year

War Literature

Students will read a variety of genres including poetry, songs, plays, novels, as well as excerpts from non-fiction works spanning from the Thirty-Years War through the American Civil War to World Wars I and II, Vietnam, and finally the wars in Afghanistan and Iraq. Students will be asked to use critical-thinking and problem-solving skills as they navigate reading and writing about the reality and humanity of the war experience. With each piece of literature, students will research the facts of the war and then hold them up to the experience as described in the literature. Students will be asked to write for a variety of audiences as they try both to make sense of something they are too young and too lucky to have experienced first hand and also to notice how these published authors have worked to capture war on the page. (Semester) Fall or Spring of Junior or Senior Year

Latin American Migration Literature

This course will provide an introduction to Latin American literatures and cultures in the United States from 1960 to the present, paying close attention to the historical and social events that have influenced the construction of Latin American identities and their relationship to migration. Concepts considered will include diaspora, border identities, code-switching, and double-consciousness as represented in literature and popular culture. The emphasis will be on the tension experienced when living between two cultures.

(Semester) Fall of Junior or Senior Year (0.5 Global Studies credit)

Current American Literature (Advanced)

The purpose of this class is for seniors to develop an understanding of and Table of Contents

appreciation for "current American literature,"formed through reading, discussing, and writing about various texts--novels, essays, poems, short stories, and graphic novels. The content of what is "current" is ever-changing, so students will be tasked with altering the syllabus in order to better exemplify the subject. The class will attempt to come to grips with current issues and how they're explored in literary art. This model creates an ever-changing class for an ever-changing topic. (Semester) Spring of Senior Year

AP English Language and Composition

AP Language and Comp offers college-level writing assignments in expository, analytical, and argumentative modes. Readings come from non-fiction genres such as autobiography, criticism, the scientific essay, the political column, and the place narrative. Discussions focus on rhetorical technique, critical and analytical thinking, and logic. Students prepare drafts in and out of class and revise them with feedback from peers, taking the AP Exam in May.

Prerequisite: Departmental approval (Semester) Spring of Junior or Senior Year

AP English Literature and Composition

This course refines students' skills with literary analysis, and it provides students with an intellectual framework within which some of the greatest works of all time can be placed. Regularly taught novels include Melville's *Moby-Dick*, Ellison's *Invisible Man* and Woolf's *Mrs. Dalloway*. Other emphasized writers include Dickinson, Frost, and Shakespeare. Students also read novels and plays, independently, from an "outside reading" list. AP English Lit works toward helping students develop an appreciation for literary art. Students take the AP Exam in May.

Prerequisite: Departmental approval (Senior Year) (0.5 Global Studies credit)

History

The History Department emphasizes teaching students the skills and knowledge necessary for civic competence and the historical perspective critical for interpreting the complex issues of today and tomorrow. The teachers strive to instill a love of learning, exploration and inquiry as an inspiration for further study. They work closely together to develop teaching approaches that motivate student learning and use a variety of cooperative learning, role- playing and debate activities to promote historical thinking. The students learn to interpret primary and secondary sources, to think critically, and to write analytically. The department endeavors to develop students who have the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world.

Global Civics: Government Structures and Economic Systems

Global Civics focuses on the roles and responsibilities of citizens from local, state, national, and global perspectives. Teachers place emphasis on developing both the knowledge and skills necessary to be an active and engaged citizen. Students gain an awareness and appreciation for government and economic systems and how those American systems compare to others throughout the world. Teachers incorporate simulations and interactive activities to develop 21st century skills such as critical thinking, research, problem solving, creativity, innovation, communication, and collaboration. In order to best prepare students to be engaged citizens in the world in which they live, 21st century technology tools and skills will be incorporated throughout the course.

No prerequisite (Year) (1 Global Studies credit)

World History

World History fosters a greater appreciation for cultural diversity through a better understanding of how different societies have developed through time. Students learn to recognize how various aspects of our culture have come to us from other times and places. The course emphasizes a chronological and thematic development of events from ancient times to the Age of Globalization. This approach facilitates an understanding of the interconnected nature of history as well as a framework for viewing the complexity of current issues. **No prerequisite** (Year) (1 Global Studies credit)

AP World History: Modern

The AP World History course will survey changes and continuities within Afroeurasian and American societies from 1200 CE to the present.six overall themes: governance, innovation, culture, economic systems, social structures, and interactions between humans and the environment. This course is also designed to establish and enhance historical thinking skills using stimulus-based tests, essay writing, and document analysis. Students will also further develop their reading comprehension and critical thinking skills. All enrolled students are required to take the AP exam in May. **Prerequisite**: Department approval (Year) (1 Global Studies credit).

United States History

This course is a general survey of United States history from European encounter of the Americas to the present day. Students participate in a wide variety of activities and role-playing simulations and learn advanced interpretive reading, writing, and speaking skills. The curriculum concentrates on colonial settlement, the American Revolution and the Constitution, the growth of democracy, the Civil War, industrialization and its effects, the development of the U.S. as a world power, and modern America. Students further develop their historical thinking skills as they strive to understand the past. Students learn the value of historical perspective for interpreting today's social and political issues.

No prerequisite (Year)

AP United States History

AP United States history is a college-level course that seeks to apprentice students to the practice of history by explicitly stressing the development of historical thinking skills and reasoning processes while learning about the past. The reasoning processes of causation, comparison, and continuity and change over time focus on "thinking historically" (the habits of mind that historians use when they approach the past in a critical way), while the skills of crafting historical arguments from historical evidence and historical interpretation are used by historians when they construct, review and assess arguments about United States history. Students will use these processes and skills to interrogate a variety of sources including maps, graphs, charts, images, audio-visuals, and primary and secondary readings. These materials, coupled with a college-level textbook, help students to understand the relationship between themes and key concepts. The course content provides students with an in-depth study of critical trends and moments that have shaped our nation as well as an understanding of the historiography of those processes. The teachers emphasize that understanding the past enhances people's ability to confront current and future situations. All enrolled students are required to take the AP exam in May.

Prerequisite: Department approval (Year)

AP European History

This course allows students to investigate the major events and ideas of European history from the Renaissance to the present. It is designed to facilitate a more complete understanding of the cultural diversity of the region as well as the complexity of current European and world affairs. Although the class has a strong focus on political events, there will also be considerable development of religious, artistic, economic, social and intellectual themes. Students will be expected to work with both original and secondary sources to develop their sense of history as an interpretive discipline. They will be encouraged to develop sophisticated approaches in their essay writing with a special emphasis on the use of evidence and the development of an academic argument. All enrolled students are required to take the AP exam in May. **Prerequisite:** Department approval (Year) (1 Global Studies credit)

AP U.S. Government and Politics

This college-level course is designed to give highly motivated students a critical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret American politics and an analysis of specific case studies. It also emphasizes familiarity with the various institutions, groups, beliefs, and ideas that make up American political philosophies. Students examine the following topics: Constitutional underpinnings, political beliefs and behaviors, political parties and interest groups, institutions (Legislative, Judiciary, Executive) and public policy processes, and civil rights and civil liberties. The teacher uses cooperative-learning simulations, seminar-style discussions, data analysis, and interpretive writings to process information. In addition to the advanced placement

curriculum, students design and stage a series of community-wide civic engagement projects. For example, in the past the class created NCGOVOTE.org to increase awareness of low voter turnout in North Carolina. Students also attend city council and county commission meetings as part of a civic engagement requirement of the course. All enrolled students are required to take the AP exam in May. **Prerequisite:** Department approval (Year)

AP Human Geography

AP Human Geography is a college-level course designed to promote global literacy and citizenship through the study of contemporary world and regional issues viewed through a geographic lens. Students will develop their communication and critical thinking skills as well as geographic literacy and empathy. Units of study focus on themes such as population, political organization of space, agricultural and rural land use, industrialization and economic development, and cities and urban land use. The course will utilize a problem-based approach to examine issues such as the plight of refugees, population growth and its environmental and political consequences, the role of religion in culture and politics, the role of race in urban development, the role of women in the developing world, and the role of micro financing in the world economy. Course activities will include simulations, research assignments, and collaborative problem-solving. All enrolled students are required to take the AP exam in May. **Prerequisite:** Department approval (Year) (1 Global Studies credit)

AP Microeconomics

Through this course, students gain a thorough understanding of the economic principles that relate to consumers and producers, and they learn about basic economic concepts, such as opportunity costs and comparative advantage. This course, which emphasizes the nature and function of product markets, includes a study of supply and demand models, the theory of consumer choice, production and cost analysis, and the theory of the firm. Students also learn about factor markets - markets of labor, capital, and land. Finally, the course includes a study of economic efficiency and equity as well as the role of government in economic affairs. All enrolled students are required to take the AP exam in May.

Prerequisite: Algebra II and department approval (Semester) Fall Term

AP Macroeconomics

Through this course, students gain a thorough understanding of the economic principles that relate to an economic system as a whole. Students learn about measures of economic performance, including GDP, unemployment, and inflation. This course emphasizes aggregate demand and aggregate supply analysis, including fiscal and monetary policy analysis for both the short-run and the long-run. Students learn about the financial sector, with emphasis on money supply and demand. Finally, the course includes a study of long-run economic growth and international trade. All enrolled students are required to take the AP exam in May.

Prerequisite: AP Microeconomics and department approval (Semester) Spring Term (0.5 Global Studies credit)

AP Psychology

Advanced Placement Psychology is a college-level course that covers a wide number of detailed topics in Psychology. Students learn the basic concepts behind psychological experimentation and use them to better understand the past and current theories and contributions of prominent psychologists. The specific areas covered in this course are social psychology, research methods, neuroscience, nature/nurture, development, sensation and perception, states of consciousness, learning, memory, cognitive processes and language, intelligence, motivation, emotion, personality, stress and health, and psychological disorders and therapies. Classroom methods include a balance of lecture, discussion, interactive activities, and demonstrations. This course seeks to illustrate the extent to which psychology is involved in the everyday lives of students. All enrolled students are required to take the AP exam in May. **Prerequisite:** Department approval (Year)

Introduction to Psychology

This course gives a broad overview of the field of psychology. A focus throughout the course is for students to develop knowledge of how various areas of psychology apply to their everyday lives. Topics of study include the basics of psychological science, nature and nurture, sleep, human development, neuroscience, mindfulness, and habit formation. Classroom methods include field work, design challenges, discussion, interactive activities, and demonstrations. An interest in how individuals think, feel, and

act is essential, as students will be asked to regularly express themselves in class and in assignments with regard to the experience of humanity. Throughout this course, students gain insight into their own behaviors and mental processes, as well as an appreciation for the similarities and differences among classmates. **No prerequisite** (Semester) Fall or Spring Term

Media in the 20th and 21st Centuries

This course will examine the role of media in modern history. Students will study the political, economic, and cultural impact of the media. As students are deluged with media messages each day, the ability to utilize critical thinking skills to deconstruct and analyze media is an essential skill. In the 21st century, students can consume, produce, share, evaluate, and interact with new media, and each unit of the course addresses these capabilities. Students will analyze advertisements, political campaigns, the news media, photojournalism, media conglomeration, and examine the impact of social media. Techniques of persuasion and technical methods of filming and editing that are used to shape meaning in media productions will be points of emphasis. The general content of other aspects of the media (television, movies, popular music, and video games) will also be analyzed, with a special focus on the portrayal of gender, race, and violence. Literacy involves both reading and writing; therefore, the course will also teach students how to construct their own video projects using the iMovie program.

No prerequisite (Semester) Fall or Spring Term

Comparative Government and Politics

Students in Comparative Government and Politics will study the conceptual tools necessary to develop an understanding of some of the world's diverse political structures and practices. Students will examine both specific countries and their governments and general concepts used to interpret the political relationships and institutions found in virtually all national politics. Students will study the governmental systems of Great Britain, Nigeria, China, Russia, Iran and Mexico, providing a foundation for developing paradigms of different types of political systems. Using these countries as case studies, students will also seek to understand the political implications of different levels of economic development and globalization. **No prerequisite** (Semester) Fall Term (0.5 Global Studies credit)

Crises of Nationalism: The U.S. Civil War and the World in the 1860s

Students in this course will study the cultural, social, political, economic and military aspects of this crisis in nationalism period in U.S. and world history. Students will compare the Civil War in the United States with events in Germany, Italy, China, Japan and Russia (and other places), examining the causes of conflicts, the leadership abilities of the major figures, important battles, and the effects of these crises. Students will examine primary and secondary sources and historical fiction to reach a critical understanding of the issues of the time and how these conflicts set the stage for the 20th century. Class activities include role-playing simulations, debates, small and large group discussions, art projects, and presentations. The course may include a field trip to Civil War sites in Virginia, Maryland, and Pennsylvania.

No prerequisite (Semester) Fall Term (0.5 Global Studies credit)

Global Issues: Genocide

This course will introduce students to the foundations of the Universal Declaration of Human Rights granted to all persons following the Second World War. Students will learn the history and application of the UDHR and will study and investigate past genocides and human rights violations, as well as current human rights violations through case studies. This course will utilize project-based learning, discussions, debates, and critical analysis to fully comprehend the how and why behind these atrocities and to evaluate possible responses. The course will help students develop their research skills and writing skills as they dive into the world of historical investigation and analysis.

No prerequisite (Semester) Fall Term (0.5 Global Studies credit)

Global Issues: Europe and the Americas

Students in Global Issues will study current global problems in an effort to understand how they can promote constructive decision-making and positive change. They will learn how to explore recent events and their historical background, to put a human face on world issues, and to see those issues from multiple perspectives. The course will focus on developing the skills needed to be an active and engaged global citizen in the 21st century: written and oral communication, policy analysis, advocacy, research,

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information gathering, collaboration, conflict resolution, and critical thinking skills. Students will study problems in Latin America, Europe, and Russia. **No prerequisite** (Semester) Fall Term (0.5 Global Studies credit)

Social Entrepreneurship

Social Entrepreneurship is an experiential learning elective course designed to guide and propel students through the knowledge and processes necessary to launch businesses that create social value. Students will learn and apply new knowledge and skills in order to collaboratively problem-solve to develop and implement creative business models that sustainably address real-world social problems. They will learn how to rapidly develop and test ideas by gathering massive amounts of customer and marketplace feedback. In addition to learning about complex social problems and applying rigorous entrepreneurial processes to address them, students will also focus on collaboration, leadership, writing, research, and presentation skills that will serve them for the rest of their lives. This course also uses just-in-time content and resource acquisition to support learning toward creation and realization of students' capacity to positively impact the world through social entrepreneurship.

No prerequisite (Semester) Fall Term (0.5 Global Studies credit)

Legal Issues

This course involves analyzing, discussing and interpreting the principles of laws that impact our daily lives. Students will be introduced to our legal system and the study of the processes involved in the legal system. This includes the study of legal rights and duties that pertain to the individual. Class activities include discussion of current events as they relate to the law, research on legal issues and analyses of case problems. **No prerequisite** (Semester) Spring Term

Comparative Religions

This course will seek to enhance a students understanding of the world's religions by creating a classroom environment that encourages the discussion of the history and beliefs of philosophies and religions such as Christianity, Judaism, Islam, Hinduism and Buddhism. Students will expand on what they have learned about the major world religions in World History by examining primary and secondary source readings and by participating in philosophical discussions. The course will introduce students to ways of

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thinking that go beyond the typical history course and will ask students to investigate a multitude of possibilities in the religious and philosophical world. **No prerequisite** (Semester) Spring Term (0.5 Global Studies credit)

Economics of Development

Students will explore economic concepts related to international trade, foreign exchange markets, foreign direct investment, and economic growth, with an overall focus on how these topics relate to economic dependencies and development, particularly in Latin American countries. Instructional strategies will be student centered, with an emphasis on peer-led discussions of key topics, examination of differing perspectives, analysis of real-world data, and collaborative problem solving. Students may take the course during or after completing AP Economics, but the AP course is not a prerequisite.

Prerequisite: Global Civics (Semester) Spring Term (0.5 Global Studies credit)

Global History of the 1960s

This course introduces students to the important cultural, economic, political and social issues of modern American and World society by focusing on the turbulent 1960s. Students will analyze key leaders, global conflicts including American involvement in Vietnam, independence movements, the successes and frustrations of Civil and Human Rights movements, popular culture, the tribulations of 1968 and the birth of the conservative movement. Students will examine primary and secondary sources and historical fiction to reach a critical understanding of the issues of the time and how these conflicts set the stage for the 21st century. Class activities include role-playing simulations, debates, small and large group discussions, projects, presentations, and guest speakers.

No prerequisite (Semester) Spring Term (0.5 Global Studies credit)

Global Issues: Africa

Students will study current global problems in an effort to understand how they can promote constructive decision-making and positive change. They will learn how to explore recent events and their historical background, to put a human face on world issues, and to see those issues from multiple perspectives. The course will focus on developing the skills needed to be an active and engaged global citizen in the 21st century: written and oral communication, policy analysis, advocacy, research, information gathering, collaboration, conflict resolution, and critical thinking skills. Students will study problems in Sub-Saharan African countries including South Africa, Democratic Republic of Congo, Rwanda and Nigeria.

No prerequisite (Semester) Spring Term (0.5 Global Studies credit)

Global Issues: Asia

Students in this Global Issues course will study current global problems as they pertain to Asia in an effort to understand and promote constructive decision-making and positive change. Students will examine the historical background to current events, learn to put a human face on world issues, and try to understand those issues from multiple perspectives. The course will focus on developing the skills needed to be an active and engaged global citizen in the 21st century: written and oral communication, policy analysis, advocacy, research, information gathering, collaboration, conflict resolution, and critical thinking skills. Students will study problems in several countries including China, the Koreas, Cambodia, Japan, and India.

Global Issues: Middle East and North Africa

Students in Global Issues will study current global problems in an effort to understand how they can promote constructive decision-making and positive change. They will learn how to explore recent events and their historical background, to put a human face on world issues, and to see those issues from multiple perspectives. The course will focus on developing the skills needed to be an active and engaged global citizen in the 21st century: written and oral communication, policy analysis, advocacy, research, information gathering, collaboration, conflict resolution, and critical thinking skills. Students will study problems in the Middle East and North Africa. **No prerequisite** (Semester) Spring Term (0.5 Global Studies credit)

Global Leadership (Advanced)

Students in this course will be empowered to become more effective collaborators and leaders in a globally interconnected world. Students will be challenged to think

strategically and reflectively as they participate in individual and collective activities designed to help students explore the skill set needed for effective, thoughtful, and ethical leadership in collaborative environments. Students will complete a research project, collaborative projects, and an exit interview process. Students will develop a deeper understanding of their personal agency and will approach problem solving with enhanced curiosity, compassion, and commitment.

Prerequisite: Required for seniors in the Global Studies Diploma Program (Semester) Spring Term (0.5 Global Studies credit)

Global Issues: Sustainable Development

Students will explore issues related to sustainable development and the UN Sustainable Development Goals (<u>https://sustainabledevelopment.un.org</u>), including topics such as the circular economy, gender equality, and access to clean water. Students will use multiple scales of analysis to understand sustainable development on both a global and local level (through field work in the city of Charlotte). Students will have the opportunity to conduct in-depth research related to the topic and present their findings to the class.

No prerequisite (Semester) Summer Term (0.5 Global Studies credit)

Mathematics

The primary goal of the Mathematics Department is to assist students in developing skills to solve problems, analyze data, and use technology. Teachers and students cooperate in the process of exploring mathematical reasoning, conjectures and problem solving. Students use both inductive and deductive processes. The bases for instruction are the concepts and algorithms of mathematics, but real-world applications of the theories comprise a significant portion of instructional time. Students are required to take four mathematics courses during their Upper School years, with Algebra I, Geometry, Algebra II, and Precalculus being the required courses for the majority of students. Students in Advanced classes have several options in completing the four required courses.

Algebra I

This first year course in Algebra is designed to integrate concepts studied in both algebra and physics. Students develop a deeper understanding of the interconnectedness between these disciplines using real- world applications. Students study families of functions and realistic problems through activities that engage them in data collection, the use of tables and graphs to organize and display data, the development of symbolic rules to model relations among important variables, and meaningful questions about those relations. Being able to use algebra comfortably and confidently will enable students to develop a more powerful understanding of physics. The foundational algebraic skills taught include a study of lines and linear functions, systems of linear equations and inequalities, polynomials, factoring, quadratic functions, algebraic fractions, rational and irrational numbers, absolute values, and an introduction to statistical modeling.

Prerequisite: Algebra Topics (Year)

Geometry (Advanced)

With department approval, a student may elect to take Advanced Geometry, which offers a rigorous treatment of topics and an in-depth development of direct and indirect proofs. Topics include angle relationships, congruence, lines, planes, similarity, circles, polygons, coordinate geometry, transformational geometry, and right and oblique

triangle trigonometry.

Prerequisite: Algebra I (Advanced) or department approval (Year)

Geometry Accelerated

This course teaches students how mathematics can develop from a postulate system using deductive reasoning. Students think in spatial terms incorporating points, lines, planes, congruence, and similarity. The students will work with triangles, polygons, circles, and geometric solids. Students will use mathematical proof to justify statements. Students will explore classic geometric constructions. Teachers introduce coordinate geometry and transformational geometry as time permits. **Prerequisite:** Algebra I(Year) and Department Approval.

Geometry

Students in this course will study geometric figures such as points, lines, planes, triangles, polygons, circles, and geometric solids. Students will explore relationships such as congruence, and similarity. Students learn to approach a problem with a specific goal in mind and logically develop the appropriate steps to reach their conclusion using deductive reasoning. Students will strengthen algebra skills by modeling geometric properties with algebraic equations. Geometry content required for ACT and SAT will be covered.

Prerequisite: Algebra I (Year)

Algebra II/Trigonometry (Advanced)

Students study functions and their properties in the following areas: linear, quadratic, polynomial, rational, power, exponential, logarithmic, and trigonometric. Students increase their knowledge of mathematical systems using logic, set theory, and proof. Students become experts with graphing calculators, which aid them in understanding relationships. Students study the concepts of functions, inverses, factoring, systems of equations, conic sections, sequences, and series, and they apply these concepts to solving a variety of real world applications and word problems. In all areas, students seek to understand multiple treatments of functions: algebraic, graphical, numerical, and verbal.

Prerequisite: Geometry (Advanced) or department approval (Year)

Algebra II/Trigonometry Accelerated

In this course, students expand upon their thinking skills by analyzing information and incorporating strategies for resolving problems. Students continue to integrate problem solving throughout the year by exploring a variety of applications and word problems. Students study the concepts of functions, graphing, rational exponents/expressions, polynomial expressions, systems of equations, sequences, series, logarithms, conic sections, trigonometry, and an introduction to statistics. With the help of a graphing calculator, students look beyond the simple computed answers and seek understanding of these concepts graphically as well as algebraically. **Prerequisite:** Geometry Accelerated (Year) or Geometry and Department Approval

Algebra II

This course includes a thorough review of Algebra I followed by an introduction to a study of the fundamentals of Algebra II including operations with polynomials, solving linear and quadratic equations, real and complex numbers, logarithms, graphing on the coordinate plane, inequalities, and functions. This course encourages students to develop abstract and independent thinking through the use of concrete examples. Students will be exposed to content required for SAT and ACT. **Prerequisite:** Geometry (Year)

Precalculus (Advanced)

Students will review linear and other polynomial equations. They will then study trigonometry, focusing on graphing of trigonometric functions, and using the Laws of Sines and Cosines. Additionally, students will study logarithmic and exponential functions, mathematical induction, conic sections, complex numbers, polar coordinates, parametric equations, probability and statistics. The course will also include a unit on limits and continuity that will prepare students for a college level calculus class. Students will use a graphing calculator as an integral part of the course, learning to link together the algebraic, numerical, and geometric representations of functions. Students taking this course will receive advanced credit.

Prerequisite: Algebra II/Trigonometry Accelerated (This course is recommended for the student who anticipates needing a Calculus class at the college level.) (Year)

Algebra III/Trigonometry

This course will satisfy the four year mathematics requirement. Students will not receive advanced credit. The first semester begins with an introduction to trigonometry through triangles, the unit circle, graphing sinusoids, and basic trigonometric proofs. The following units include a study of advanced algebraic topics (regression equations, graph- ing, and analysis) through the lens of personal finance. Students will use a variety of methods and techniques to analyze and solve "real world" problems. Topics include consumer credit, loans, mortgages, and taxes. In a culminating activity at the end of the year, students will prepare a detailed personal budget.

Prerequisite: Algebra II and department recommendation (This course is intended for a student who does not anticipate needing a Calculus course at the college level.) (Year)

Math for the Social Sciences

Students will learn about several areas of applied mathematics, particularly areas that can be applied in the social sciences and/or examined with an international perspective. The main topics of game theory, statistics, urban planning, growth models, and possibly voting/ apportionment represent a variety of different applications, while the small number of topics will allow for an in-depth examination of each topic, with an emphasis on global comparisons. Because of the focus on critical thinking and problem solving, collaborative work will be an integral part of the course. **Prerequisite:** Algebra II (Semester) Fall Term(0.5 Global Studies credit)

Analysis (Advanced)

This advanced course is for students who are preparing for a college program that will be demanding in mathematics and science, and will include a study of Calculus. The course develops a thorough analysis of polynomial, rational, exponential, and logarithmic functions. Analytic geometry and trigonometry as well are included along with vectors, polar and parametric equations. Instruction also includes an introduction into the theory of limits, first derivatives, and their applications. Students master the use of the graphing calculator through application problems. This course is for students who plan to complete AB or Advanced Placement Calculus BC in their senior year. **Prerequisite:** Algebra II/Trigonometry Advanced or department approval. (Year)

Calculus (Advanced)

This course provides students with an introduction to the concepts of differential calculus and the applications of calculus. Stu- dents develop an understanding of calculus concepts and use these concepts in solving real world problems. Students learn the concepts of a limit and how to evaluate a limit, and learn to differentiate and integrate a variety of elementary functions. Students taking this course will receive advanced credit.

Prerequisite: Precalculus (Year)

AP Calculus AB

Students in this course will learn the material necessary for the AP AB examination in Calculus. They will learn to evaluate limits, to differentiate and to integrate various elementary functions and to apply those skills to problems in many different settings. Students will use a graphing calculator as an integral part of the course, learning to link together the algebraic, numerical, and geometric representations of functions and will be required to use the calculator on the AP exam. At the completion of the course, all students are required to take the AP exam.

Prerequisite: Analysis and department approval. (Year)

AP Calculus BC

Students in this course will learn the material necessary for the AP BC examination in Calculus. They will learn to evaluate limits, to differentiate and to integrate various elementary functions and to apply those skills to problems in many different settings. They will also cover vector, polar and parametric equations and the calculus of infinite series. Students will use a graphing calculator as an integral part of the course, learning to link together the algebraic, numerical, and geometric representations of functions, and will be required to use the calculator on the AP exam. At the completion of the course, all students are required to take the AP exam. **Prerequisite:** Analysis and department approval. (Year)

AP Statistics

Students will use a graphing calculator and computer software as their method of

discovery and understanding concepts, linking them algebraically, graphically, and numerically, as the AP Exam requires. Students will examine and simulate probability distributions in order to predict and estimate future events. Students will investigate ways to analyze the relationship between two or more variables through the concepts of correlation and regression. At the completion of the course, all students are required to take the AP exam.

Prerequisite: Precalculus and department approval. (Year)

Calculus III (Advanced)

This course follows BC Calculus and includes the study of multivariable functions, vector-valued functions in plane and space, curvature, double and triple integrals, vector analysis, and various engineering physical and mathematical applications. Students will explore three-dimensional relationships using computer software and examine advanced calculus topics as time permits. Offered when supported by course enrollment.

Prerequisite: Advanced Placement Calculus BC. (Year)

Linear Algebra (Advanced)

The basic operations of linear algebra are those learned in algebra - addition and multiplication to produce "linear combinations." But with vectors, the use of CAS (Computer Algebra System), 3D graphing applets, we move into three-dimensional space and n- dimensional space! Topics may include: matrices and their applications, determinants, simultaneous linear equations and elementary operations, vector spaces, Euclidean spaces, rank and inverses, inner products and 'best' approximations, systems of linear equations. Advanced credit is given. Offered when supported by course enrollment.

Prerequisite: Analysis and department approval. (Semester) Fall Term

Differential Equations (Advanced)

Students will examine various differential equations and their solutions, Laplace Transforms, linear and nonlinear systems, series methods, Fourier Series, boundary value problems, and numerical methods. Advanced credit is given. Offered when supported by course enrollment.

Performing Arts

The performing arts department offers courses and performance opportunities in vocal and instrumental music and in theater. The department's goal is to allow students the freedom to explore their own creativity within the context of our various disciplines while challenging them to broaden their understanding and appreciation of the arts in general.

Band

Students work in an ensemble setting to explore, rehearse, and perform varying styles of repertoire written for a wind band. This class continues to focus on the development of fundamental musical skills. Additional concentration on individual elements such as intonation, articulation, and technical facility are taught along with ensemble level musical elements such as style, balance, and blend. In addition to concert performances both on and off campus throughout the year, band members perform at athletic events as part of the pep band. Concert attire is required and will be issued on loan. This course may be repeated for credit.

Prerequisite: Prior band experience. New students with prior instrumental experience should contact the band director. (Year)

Chorus

Chorus offers students the opportunity to sing music representing a variety of genres within an ensemble setting. Collaboration and problem-solving are skills used on a daily basis as the students work for unified tone quality and intonation. Performances throughout the year usually include two contest events, two formal concerts, and various campus performances. Concert attire is required and will be issued on loan. This course may be repeated for credit.

No prerequisite but prior choral experience preferred. (Year) (.5 Global Studies credit allowed only once)

Jazz Ensemble

The Jazz Ensemble course provides students with instruction in the basics of performing in various jazz styles. Students receive practical preparation in jazz improvisation through group and individual rehearsal as well as the study of harmony, chord/scale relationships, melodic embellishment, motivic development, and common jazz rhythms and articulations. Students perform throughout the school year at various events, both on and off campus. This course may be repeated for credit.

Prerequisite: Audition is required. (Year)

Orchestra

This course offers instruction and performances of orchestral stringed instruments. The students work in an ensemble to master tone, intonation, technique, and interpretation of repertoire appropriate to their ability level. Several performances, including off-campus trips, are planned throughout the year. Concert attire is required and will be issued on loan. This course may be repeated for credit.

Prerequisite: Prior orchestra experience. New students with prior orchestra experience should contact the Orchestra Director. (Year)

Theatre I: Effective Communication

This course blends the best of an introductory theatre class and a public speaking class. Students learn to express themselves with greater confidence and clarity whether through improv and character work or through the delivery of a prepared speech. Students will practice critical thinking and will enjoy the collaboration associated with a theatre ensemble.

No prerequisite. (Semester) Fall Term or Spring Term

Theatre II: Method Acting

This course is for students who would like to build upon the foundations gained in Theatre I. Students explore advanced acting techniques developed by Constantin Stanislavsky and Lee Strasberg by using acting exercises, classic as well as modern plays, text/character analysis, and principles of good audition technique. Course projects require a performance component.

Prerequisite: Theatre I or student successfully completed Theatre 7/8 and was cast in the All-School or US production. (Semester) Fall Term or Spring Term

Devised Theatre Workshop

In this unique course, students will explore the world of devised theatre by working with found source material, master classes with guest artists, and group improvisation that will culminate in an original play created by the class. This course will require a strong performance component and some outside rehearsal.

Prerequisite: Theatre II or student was cast in two or more US productions. (Semester) Fall Term

Musical Theatre Performance

Students in this course will explore and study the art of musical theatre. This performance-oriented course provides a systematic approach to achieving a high level of acting skills through the medium of song. Students also receive training and practice in selecting, preparing, and presenting audition material appropriate for their current age and abilities. American musical theatre history will also be covered. This course will require a strong performance component and solo singing in front of the class. **Prerequisite:** Theatre II or student was cast in two or more US productions. (Semester) Spring Term

(Re)Act: Theatre and Social Change

Students in this course will explore major historical and social world events of the last twenty years through the study of modern plays. They will explore these theatrical texts through reading, research, analysis, and performance. There will also be study and emphasis on Augusto Boal's Theatre of the Oppressed, where students will work as a class to create a Forum Theatre piece about a social issue they would like to explore and discuss with the PDS community.

No Prerequisite (Semester) Fall or Spring Term (0.5 Global Studies credit)

Technical Theatre

This hands-on course is for students who would like to explore the technical side of theatre. Students will design and build scenery, paint backdrops, focus lighting instruments, create sound effects, and invent special effects.

Honors Band

This course is for seniors who have successfully completed three years in the Upper School Band, meet audition requirements, and agree to fulfill additional course requirements set forth by the instructor. Students taking this course will receive advanced credit.

Prerequisite: Department approval. (Year)

Honors Chorus

This course is for seniors who have successfully completed three years in the Upper School Chorus, meet audition requirements, and agree to fulfill additional course requirements set forth by the instructor. Students taking this course will receive advanced credit.

Prerequisite: Department approval. (Year)

Honors Jazz Ensemble

This course is for seniors who have successfully completed three years in the Upper School Band or Jazz Ensemble, meet audition requirements, and agree to fulfill additional course requirements set forth by the instructor. Students taking this course will receive advanced credit.

Prerequisite: Department approval. (Year)

Honors Orchestra

This course is for seniors who have successfully completed three years in the Upper School Orchestra, meet audition requirements, and agree to fulfill additional course requirements set forth by the instructor. Students taking this course will receive advanced credit.

Prerequisite: Department approval. (Year)

AP Music Theory

Students study the aspects of melody, harmony, texture, rhythm, form, and to some Table of Contents extent, history and style. Students should enter this class with a knowledge of basic theory, including rhythmic patterns, pitch recognition, and key signatures. Additionally, they should demonstrate the ability to read and write musical notation and to perform vocally or instrumentally. Prior to enrollment, students must meet with the instructor to complete a pre-assessment with both aural and non-aural stimulus questions. **Prerequisite:** Successful completion of one year in US Band, US Chorus, US Orchestra, or Jazz Band. Department approval. (Year)

Physical Education and Health

"A sound body is a prerequisite for a fully functioning person."

If we are to view the student as a whole, we must value his or her physical development as much as his or her intellectual, emotional, or social growth. Students are required to take PE and Health in the 9th grade for one unit of credit. Students may exempt an additional 0.5 units by taking the PE exemption test after completing three seasons of JV or Varsity PDS Athletics. This test must be completed before the start of the second semester of the senior year.

Ninth Grade Health

In today's society, we are inundated with ideas about healthy living and what others suggest we do to improve our quality of life. It would be simple to believe and follow the first health theory thrown our way, but in so many cases, this may not improve our quality of life, but instead have a reverse effect. With this in mind, the ninth grade health course is designed to empower students to follow three simple steps to attack and analyze relevant health topics. First, students must research and acquire knowledge about the subject. Second, they must analyze their research and determine what their attitude is about the subject. Finally, the students are challenged to look at pre-existing behaviors that impact the subject and set goals to make any necessary changes to improve their quality of life.

No Prerequisite. (Semester) Fall Term or Spring Term

P.E. – Lifetime Wellness

P.E. – Lifetime Wellness

This course is designed to help students become physically literate individuals. It is a unique P.E. course as it has a substantial emphasis on the cognitive as well as the psychomotor ability of the student. Students will study important concepts and principles of fitness, health, and wellness through the use of the Fitness for Life iBook. They will apply these principles physically through the use of heart rate monitors, peer and self-assessments of weight training techniques through video analysis, and fitness lab testing. Additionally, the course culminates with a major project in which students will develop and implement a personal fitness program. Students will experience a

variety of physical activities including yoga and high-intensity interval training. Ultimately, students will work towards understanding self-management skills that will promote healthy lifestyles.

No Prerequisite (Semester) Fall Term or Spring Term

P.E. – Athletic Development

Personal strength enhancement and reduction of injury are two of the major goals of this course. Students participating in interscholastic athletics, as well as non-athletes, will enjoy and benefit from the course. Training techniques include Olympic lifts (ground-based multi-joint movements), strength lifts, metabolic conditioning, plyometrics, agility, speed and acceleration drills, core stability, and flexibility of movement. Video analysis of the movements in class will be used to correct, improve, and learn new techniques.

Prerequisite: P.E. Lifetime Wellness (Semester) Fall Term or Spring Term

P.E. – Dancercise

Students express themselves artistically while receiving numerous health-related fitness benefits in this course. Students learn techniques from Jazz to Hip Hop as they push themselves to improve their level of fitness. This course may only be taken once for a half unit of credit.

Prerequisite: P.E. – Lifetime Wellness (Semester) Fall Term or Spring Term

P.E. - Dancercise II

The aim of this course is to give students advanced instruction and further exposure to dance and hatha yoga while providing an athletic and creative outlet. Students will learn how to properly stretch and physically warm their bodies up for dance to help improve their mobility and flexibility. Students will continue building on their previous Dancercise knowledge by learning and executing advanced movement in jazz and ballet. Students will be introduced to different variations of advanced hatha yoga and mindfulness exercises.

Prerequisite: P.E. - Lifetime Wellness & Dancercise (Semester) Fall Term or Spring Term)

P.E. – International Games

As with our global studies program, this course will assist in teaching our students to appreciate and value the differences in people throughout the world. The course will combine core fitness/sports components with the history and participation of games from a variety of countries, such as Sepak Takraw (Thailand), Floorball (Scandinavia), and Gaelic Football (Ireland). Students will discuss the origin, rules, strategies, and techniques needed to participate in the sport. Additionally, students will focus on improving their physical fitness through a variety of activities while having their heart rate monitored.

Prerequisite: P.E. Lifetime Wellness (Semester) Fall Term or Spring Term (0.5 Global Studies credit)

P.E. – Life Fitness

This course is designed for self-motivated students who are ready to acknowledge fitness as it will be when they leave PDS. Students will be responsible for reaching their fitness goals on their own time, outside of school hours, through various venues. A physical education teacher will monitor them through online journals and activity monitors. Additionally, students are required to complete food journals, a fitness portfolio, and a pre and post fitness test. Students who are interested in this course must have a current membership to a fitness center and will be required to purchase a Polar Heart Rate Monitor.

Prerequisite: P.E. - Lifetime Wellness is available only to Juniors Fall Term or Spring Term and to Seniors Fall Term only

P.E. – Early Bird Athletic Development

Personal strength enhancement and reduction of injury are two of the major goals of this course. Students participating in interscholastic athletics, as well as non-athletes, will enjoy and benefit from the course. Training techniques include Olympic lifts (ground-based multi-joint movements), strength lifts, metabolic conditioning, plyometrics, agility, speed and acceleration drills, core stability, and flexibility of movement. Video analysis of the movements in class will be used to correct, improve, and learn new techniques. This course will meet before school from 7:00 am to 7:45 am. **Prerequisite:** P.E. Lifetime Wellness (Semester) Fall Term or Spring Term

Science

The primary goals of the Science Department are to develop correct understanding of scientific processes and phenomena, through inquiry and modeling methods. The very nature of the laboratory investigations promotes students' ability to think critically, work collaboratively, and to communicate effectively. The Science Department believes that all students should have a foundation in each of the sciences and therefore requires students to take all three basic courses - physics, chemistry, and biology - as minimal preparation for college. There are a wide range of elective and advanced studies offered beyond the basic course of study.

Physics I

Physics I is a modeling-based physics course that gives students an understanding of the fundamental concepts and laws that govern the world. Using a variety of techniques for collecting and analyzing data, students develop models to describe fundamental phenomena. Although conceptual understanding is the emphasis of this course, students use algebra to express quantitative relationships and draw conclusions, in addition to developing skills in problem solving and analytical thinking. Topics include motion, forces, energy, and electrostatics.

No prerequisite (Year)

Physics I Accelerated

Physics I Accelerated is a modeling-based physics course that gives students an understanding of the fundamental concepts and laws that govern the world. Using a variety of techniques for collecting and analyzing data, stu- dents develop models to describe fundamental phenomena, in addition to developing skills in problem solving and analytical thinking. Physics I Accelerated moves at a faster pace, investigates topics at greater depth, includes additional models, and is more mathematically rigorous than Physics I. Topics include motion, forces, circular motion, energy, electrostatics, and waves.

Prerequisite: High level of achievement on placement test and teacher recommendation (Year)

Chemistry I

Chemistry I students develop a foundation in the basic topics of chemistry that include the study of matter, its composition, periodicity, energy, and reactions. Laboratory investigations and activities reinforce these concepts and emphasize the development of problem-solving skills. In addition, students will develop models to explain the structure, properties, and interactions of matter.

Prerequisite: Physics I (Year)

Chemistry I Accelerated

This first year chemistry course will investigate the topics that are described in the course description of Chemistry I. The accelerated class is designed for those students who have a strong interest in science and exploring chemistry at a greater depth. The accelerated class moves at a faster pace and investigates topics in more depth. It is very highly recommended for any student who is considering AP sciences in the future. **Prerequisite:** Physics I with a minimum of a 90 average and teacher recommendation (Year)

Biology I

This college preparatory course is based on molecular/cellular biology and builds upon topics learned in Chemistry. Biology emphasizes the understanding and application of the concepts of life enabling students to see the relevance of biology in their lives and make responsible decisions about their world. Laboratory investigations and case studies promote a deeper understanding of these concepts. The anatomy and physiology of mammals is investigated by means of dis-section. **Prerequisite:** Chemistry I or Chemistry I Accelerated (Year)

Biology I Accelerated

This course is based on molecular/cellular biology and builds upon topics learned in Chemistry. The accelerated class differs significantly from the introductory biology course with respect to the range and depth of topics covered, pace of instruction, and longer term guided- independent laboratory work conducted by students. Laboratory investigations are a central component of this course and promote a practical application of concepts covered in class. The anatomy and physiology of mammals is investigated by means of dissection.

Prerequisites: Chemistry I Accelerated with 87 average or Chemistry I with 93 average and departmental approval (Year)

Applied Sports Anatomy

This course is designed to help students become more knowledgeable about athletic injuries. Students will be instructed on the musculoskeletal anatomy associated with the major joints of the body as well as the initial and follow-up phases of injury management. Students will be responsible for learning practical assessment, rehabilitative techniques, and taping techniques. Additionally, students will be expected to put in 15 hours of service as student athletic trainers for the sports teams at PDS where they can apply the skills they learn in class.

No Prerequisite (Semester) Fall Term or Spring Term

Anatomy and Physiology

Students explore the physiology of diseases associated with human body systems. Students enhance their understanding of anatomy and physiology through a variety of projects and laboratory investigations, including a cat dissection. **Prerequisite:** Biology (can be taken concurrently with department approval) (Semester) Fall Term

Engineering Design Challenges

This project-based engineering course challenges students to apply physics and math principles to engineer solutions to problems. The projects cover multiple engineering disciplines.

Prerequisite: Physics I and Algebra I (Semester) Fall Term

Meteorology

The meteorology course is designed to present students with a detailed study of atmospheric science. Theoretical applications of the structure of the atmosphere, its energy, motion and moisture are studied and applied in a variety of lab activities. Students will be trained to collect weather data on a daily basis using the NOAA.gov

website and online learning activities to reinforce concepts. The course also teaches the concepts of weather forecasting.

Prerequisite: Physics I (Fall Term)

Astronomy

Students study basic concepts and the overall framework of stars, galaxies and our solar system, in addition to the composition, structure and origins of the universe. Students study, observe, gather information and hypothesize about features of the celestial sky. Lab activities include use of Starry Night Computer programs and online interactive learning activities to reinforce concepts. **Prerequisite:** Physics I (Semester) Spring Term

Bioethics/Biotechnology

In this lab and case study based course, students will explore the intersection of bioethics and biotechnology, learning many of the techniques defining the field of Biology in the 21st century. Working in the laboratory to identify genomic differences among students that are responsible for variations in the ability to taste bitter foods will provide a springboard for discussions of the ethical implications of genetically modified foods, transgenic organisms containing genes from another organism, cloning animals, and cloning humans. To complete this work, students will learn the techniques of PCR, DNA isolation, restriction fragment analysis, and gel electrophoresis. In addition, students will complete activities that simulate sequencing of segments of DNA and sequencing of the entire human genome. This work will lead to discussions about knowing your own genetic destiny and genome privacy. In the process of completing this work, students will utilize on-line biotechnology databases and analysis tools. Finally, students will learn about and discuss recent advances in stem cell research that offer the possibility of curing disease, producing organs, or extending human life. Prerequisites: Chemistry, Biology (can be taken concurrently with department approval) (Semester) Spring Term (0.5 Global Studies credit)

Environmental Studies: Rethinking Sustainability in the 21st Century

This course takes students on a multidisciplinary exploration of the current trend in urban farming. Topics covered include US agriculture and food system history, agricultural entrepreneurial- ism, social and environmental activism, and agricultural

science. Course materials include a variety of readings, films, guest lectures, and field trips. In addition, the course offers experiential learning through labs and an introduction to basic horticultural practices with hands-on activities in Charger Gardens. As a culminating project, students grow and market produce like an actual urban farm/market garden.

Prerequisite: Chemistry (can be taken concurrently) (Semester) Spring Term (0.5 Global Studies credit)

Physics II

Physics II is a modeling-based course that builds on the concepts studied in Physics I. Using a variety of techniques for collecting and analyzing data, students develop models to describe fundamental phenomena. Topics include wave motion, optics, circuits, nuclear physics, and modern physics.

Prerequisites: Physics I and Geometry (Semester) Fall Term

STEM Research and Design

This course offers students the opportunity to pursue multidisciplinary research challenges in science, technology, engineering, and math. Students will choose their own research project, design and conduct experiments, and communicate the results by the end of the semester. Students will receive guidance not only from their instructor but other science department faculty as well.

Prerequisite: Physics I and Algebra I (Semester) Spring Term

AP Biology

Advanced Placement Biology differs significantly from the introductory biology courses with respect to the textbook used, the range and depth of topics covered, pace of instruction, the laboratory work done by students, and the time and effort required of students. Instruction follows The College Board syllabus and includes three major categories: molecules and cells, genetics and evolution, and organisms and populations. The double class periods each day provide time for lecture, demonstration, problem-solving, and college-level laboratory experiences. All students take the AP Biology exam at the end of the course.

Prerequisite: Chemistry I Accelerated with 87 average or Chemistry I with a 93 average. Department approval (Year)

AP Chemistry

AP Chemistry students study, in depth, some of the important concepts of Chemistry beyond the scope of the high school curriculum. Such areas include atomic theory, chemical kinetics, thermodynamics, and equilibrium. The curriculum follows the recommended outline of topics of the College Board. The double class period each day provides ample time for lecture, demonstration, problem-solving, and laboratory investigations. All students take the AP examination at the end of the course. **Prerequisite:** 87 average in Chemistry I Accelerated and co-requisite: Analysis or higher math and science department approval (Year)

AP Environmental Science

The goal of this course 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. This is a multidisciplinary course that requires students to synthesize ideas from physics, chemistry, biology, geology, geography, economics, history, and government courses. This course includes a strong laboratory and field investigation component. Students who score well on the AP exam can earn one semester of college credit for this course.

Prerequisites: Chemistry I Accelerated and Biology I Accelerated or AP Biology with 87 averages or Chemistry I and Biology I with 93 averages, and Department Approval. (Year) (1 Global Studies credit)

AP Physics

Students develop an understanding of basic concepts in classical mechanics and electricity and magnetism with emphasis on critical thinking and problem-solving skills. Meeting two periods each day enables the student to engage in frequent laboratory activities. Using a variety of techniques, students collect and analyze data and then develop models to describe fundamental principles. All students take the AP Physics exam at the end of the course.

Prerequisite or corequisite: Calculus (Year)

Visual Arts

Student-artists learn how to communicate visually by making effective use of elements and principles of aesthetic design. Introductory courses emphasize art-making skills, materials, and processes. Advanced visual arts courses provide opportunities to explore and develop skills and concepts using various techniques in both conventional and non-traditional media.

Visual arts teachers design assignments that build confidence and encourage students to relate to their own personal and cultural experiences. To promote creativity, originality, and problem-solving skills, teachers expect visual arts students to consider all possible solutions to challenging assignments.

Successful visual arts students explore cultural differences in art, and celebrate multiple perspectives. This in turn enhances valu- able self-assessment skills and allows for constructive commentary during class critiques. Art historical references infused throughout the curriculum teach a life-long appreciation of the varied meanings and purposes of art and artists.

Art I

Students learn basic visual arts vocabulary and art appreciation while developing a foundation in drawing, painting, sculpture, and design. Projects in this course include achieving visual depth through linear perspective and value control. Students critique their own work and works by peers.

No prerequisite: Fall Term or Spring Term

Art II

Art II provides challenges in both two- dimensional and three-dimensional approaches to creative problem solving. Students become well versed in color theory and in the elements and principles of design, and apply their knowledge in solving design problems in a variety of media. Students are exposed to various painting techniques and graphic design procedures in 2D projects. Techniques in 3D projects include additive sculpture and hand-built clay.

Art III

Designed for advanced student-artists, Art III builds on what students learned in earlier art courses. Students explore a variety of 2D and 3D media and also learn about various art movements and artists while working increasingly independently, with more open- ended assignments designed to broaden students' interpretation of concept. **Prerequisite:** Art II or Studio Art in Spain (Semester) Fall Term or Spring Term

Studio Art

Studio Art is for highly motivated art students who are ready to work independently. The course includes practice in the use of various media, the acquisition of techniques, the practice of art criticism and analysis, and the development of an individual, exploratory approach to art.

Prerequisite: Art III and departmental approval. (Semester) Fall Term and/or Spring Term

3D Design

This course focuses on the use of three-dimensional (3-D) elements and principles of art and design in the creation of work that involves space and form. Students will explore a variety of materials, processes, and ideas in projects that may include figurative or non-figurative sculpture, assemblage, ceramics, and installation pieces. Each student's sense of space and spatial relationships will be enriched. **Prerequisite:** Art I (Semester) Spring Term

AP Art History

Beginning with the study of Paleolithic cave paintings and concluding with contemporary works, this course makes the serious art student aware of historical styles, movements, and individual artists. This course requires the student to take the AP exam in May.

Prerequisite: Art I and/or department approval (Year) (1 Global Studies credit)

AP Art and Design

AP Art and Design is for highly motivated art students who work independently while developing a portfolio for submission to the AP program. The course includes practice in the use of various media, the acquisition of techniques, the practice of art criticism and analysis, and the development of an individual, exploratory approach to art. This course requires a student to submit a portfolio for the AP exam in May. **Prerequisite:** Art III and departmental approval (Year)

Photography I

Photography I provides an opportunity to learn both traditional black-and-white film photography as well as digital manipulation of images on the computer. Students learn basic darkroom processes to produce prints from black-and-white film negatives, and also learn basic color correction, cropping and image manipulation using Adobe Photoshop. Students must have access to a 35mm SLR (single lens reflex) film camera, and also provide their own photography paper. **Prerequisite:** Art I (Semester) Fall Term or Spring Term.

Photography II

This course continues to develop both technical and artistic skills in photography, building upon concepts learned in Photography I. Students explore additional darkroom and digital processes to solve assignments, and end the semester by developing their own independent final projects.

Prerequisites: Art I, Photography (Semester) Fall Term or Spring Term

Yearbook

This course exposes each staff member to all aspects of publications, including organization, layout, theme development, photography, writing copy, advertising, and financing. Students use Adobe InDesign to produce Liberty, the school yearbook that comes out each spring.

Prerequisite: Art I and department approval. (Year).

Studio Art in Spain

The Studio Art in Spain is designed for highly motivated upper school students with a serious interest in the visual arts. Encompassing 16 days in Spain, this course counts as a one-semester elective. Students choose one of two areas of concentration during the course: Drawing/Painting or Digital Photography. Drawing/Painting students explore a wide range of materials and techniques including observational drawing and painting exercises, painting en plein air (in the landscape), portraiture and self-portraiture, and figure drawing from a life model. Digital Photography students work primarily with 35mm digital photography. Stu- dents learn to use a range of thematic and technical processes with their images using Adobe Lightroom. All students immerse themselves in their studio work and make a strong connection to working in the extraordinary landscape around them. The course provides an outstanding cultural experience that includes a number of excursions from our home base in Madrid to some of the most culturally vibrant cities in Spain, allowing students to soak up the rich history dating back to the Roman Empire as they walk in the footsteps of artists such as Velásquez, Goya and Picasso.

Prerequisite: Art I (if students choose the Drawing/Painting Concentration) and Photo I (if students choose the Digital Photography Concentration) (Semester)

(.5 Global Studies credit) Length of time: 16 days in June, 2020

World Language

The World Language Department is committed to teaching according to the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency Scale within the modes of communication (Interpersonal Speaking, Presentational Speaking, Presentational Writing, Interpretive Listening, and Interpretive Reading).

Students will learn to engage in conversations, provide and obtain information, express feelings and emotions, and exchange opinions. They will learn to understand and interpret written and spoken language on a variety of topics, and they will work to be able to present information, concepts, and ideas to an audience of listeners or readers on a variety of topics. Culture is integrated on a daily basis into language study. The teaching of language and culture goes hand in hand and one informs the other. Students will learn language structures in context and use them to convey meaning. The courses address language structures inasmuch as they serve the communicative task and not as the end goal unto themselves. The core program includes Years 1-6. As a requirement for graduation, students must complete two sequential years of one language in the Upper School.

Seal of Biliteracy

The Seal of Biliteracy serves to formally certify attainment of biliteracy for students. It is a statement of accomplishment that helps to signal a student's linguistic and cultural readiness not only for career and college, but also for engagement as a global citizen. The Seal of Biliteracy is already awarded by schools located in the 38 US states that had approved Seal of Biliteracy legislation. Students who have completed Year 6, 7 or AP in their Junior or Senior year are eligible to apply. In order to earn a Seal of Biliteracy, French, German and Spanish students will participate in an external assessment and must demonstrate that they have attained a minimum of Intermediate High proficiency in all four skills (reading, writing, listening, and speaking) or a 4 or 5 on the AP exam. Mandarin Chinese students will also take an external assessment and must demonstrate Mid proficiency or a 3 or above on the AP exam.

Please Note:*=Proficiency descriptors taken from the American Council on the Teaching of Foreign Languages (www.ACTFL.org).

Year 1 Courses in French, German, and Spanish:

These courses are for beginning language students working towards achievement of benchmarks for the Novice High* proficiency level - i.e. expressing themselves in simple conversations and presentations on familiar topics using highly practiced, memorized words and phrases. Students are able to understand speech dealing with areas of practical need such as highly standardized messages, phrases, and instructions surrounding familiar topics such as "Who am I?," "Let's go shopping!," "What do you like to do?," "My family".

No prerequisite (Year)

Year 2 Courses in French, German, and Spanish:

Students in Year 2 will build upon the foundation set in Year 1 as students work toward the benchmarks of the Intermediate Low proficiency level. Further practice initiating, sustaining and bringing to a close conversations revolving around familiar situations (themselves, family, friends, school) will be the focus. At this level, students are encouraged to speak as much as possible and to try adding something more (another fact, thought, or question) to keep the conversation going. Communicative tasks will require students to create with the language in straightforward social situations, restricted to the concrete exchanges and predictable topics necessary for survival in the target-language culture. Themes include: "Going Out," "Traveling," "Vacation," "Activities," "My Routine," and "Health."

Prerequisite: Successful completion of Year 1, with a "B-" (80) or better. For French and Spanish: Successful completion of the Lower School World Language Program and fifth grade world language teacher approval. (Year)

Year 3 Courses in French, German, and Spanish:

These courses build upon the foundation set in Year 2 as students begin to work towards achievement of benchmarks for the Intermediate Mid 1 proficiency level, i.e. being able to handle successfully a limited number of uncomplicated communicative tasks and creating with the language using compound sentences. Students will be required to ask questions in order to sustain a conversation and practice adding new information in order to achieve completion and clarity. **Prerequisite:** Successful completion of Year 2, with a "B-" (80) or better. (Year)

Year 4 Courses in French, German, and Spanish:

These courses build upon the foundation set in Year 3 as students work towards the achievement of benchmarks to move into the Intermediate Mid 2 proficiency level, i.e. proving capable of asking more specific questions to get more detailed information. Intermediate Mid speakers are able to use expanded time frames, be more specific when describing things (quality, quantity, size) and can talk about the steps needed to accomplish what they need.

Prerequisite: Successful completion of Year 3, with a "B-" (80) or better. (Year)

Year 5 Courses in French, German, and Spanish:

These courses build upon the foundation set in Year 4 as students continue consolidating achievement to reflect the broad range of abilities for the Intermediate Mid 2 proficiency level. Students will practice telling stories from beginning to end. They will work on describing everything they see in their familiar surroundings (class, neighborhood, home), use expanded time frames and practice having conversations about topics beyond their immediate environment. Year 5 students will also practice resolving situations with a complication and expressing themselves in well connected sentences.

Prerequisite: Successful completion of Year 4, with a "B-" (80) or better. (Year)

Year 6 Courses in French and Spanish (Advanced):

These advanced courses strive to promote and reinforce fluency and accuracy in language. Students will work toward the achievement of benchmarks for the Intermediate High proficiency level. These students can keep a conversation going by asking questions, telling stories, describing people, places, and things, using expanded time frames and reporting events. They can talk about some topics beyond themselves and can resolve problems that they might encounter in their daily lives. Students at this level speak in well-connected sentences and some paragraphs in a way that people who speak the target language can understand them. The course engages students in an exploration of culture in both contemporary and historical contexts. It develops students' awareness and appreciation of various cultural aspects such as current

affairs, values, attitudes and patterns of social interactions.

Prerequisite: Successful completion of Year 5 with a "B-" (80) or better. (Year) Option: Successful completion of Year 4 with an "A" (93) or better and Department approval.

Year 6 Course in German (Advanced):

This course will focus on cultural and linguistic enrichment in the German-speaking world, placing emphasis on literary texts, news, culture and film. Students will implement tools of comprehension and analysis to immerse themselves in more in-depth resources. Opportunities for conversation will be constant, and the level of language will be similar to that of the AP level (Intermediate High to Advanced Low). We will study grammar on an as-needed basis. In the spring semester, we will prepare, rehearse and perform live a Grimm's fairy tale in the original German, often Hänsel und Gretel or Der Fischer und seine Frau.

Prerequisite: Successful completion of German 5 with a "B-" (80) or better. (Year)

Spanish 7 Advanced: Conversation and Culture

Advanced Spanish Conversation is designed for students to: develop strong conversational skills, improve their ability for self-expression, expand their active vocabulary, gain a deeper understanding and appreciation of Hispanic language and culture and use their Spanish in a natural context. Students will learn and practice formal and colloquial language, meet native speakers and students from Spanish speaking countries both in class and by means of technology. Students will research topics of interest relevant to their lives in order to be able to discuss and debate them. The proficiency target for the course is Intermediate High.

Prerequisite: Successful completion of Spanish 6 Adv. with an (80) or better or AP Spanish with an (80) or better. (Year)

French 7 Advanced: Francophone Culture through Movies:

Are you a film buff, or simply want to further enhance your speaking ability through discussion and conversation? This course will improve your language proficiency, historical, geographical and cultural awareness through the lens of exciting and rich francophone cinema. Our discussions will center around the specific language,

customs and cultures which are depicted in the Francophone films we watch. As Intermediate High speakers, you will be expected to provide insightful opinions, analyze, predict, and compare and contrast. Although emphasis will be placed on Interpersonal Speaking skills, all modes of communication will feature in this course. Some of the movies we will study are: Bienvenue Chez les Chtis and Jean de Florette. **Prerequisite:** Successful completion of French 6 Advanced or AP French with a "B-" (80) or better. (Year)

AP French Language

Students in AP French prepare to deal successfully with the complex skills required on the AP French Language and Culture exam such as writing persuasive essays and timed guided conversations. The course provides them with opportunities for critical thinking, independent work and cooperative activities. They develop a global perspective capable of fueling an interest in francophone cultures and a respect for their products, practices, and perspectives. The curriculum covers the following units: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. All materials used in the course will come from authentic sources. As students exit the course in May, they should feel confident in their abilities to comprehend written texts and oral discourse as well as communicating in writing and speaking (Interpretive, Presentational, and Interpersonal Communication).

Prerequisite: Successful completion of French 6 Advanced with an 87% or above and department approval or French 7 Advanced with an 80% and above and department approval. (Year).

AP German

The goal of AP German Language is to prepare students for success on the AP German Language Exam. This course strives to promote fluency and accuracy in language use, and the teacher expects the students to solely use German in the classroom as they engage in daily conversations based around the central themes of the course. The curriculum covers the following units: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. All materials used in the course will come from authentic sources. Some of the activities in which students will engage are:

responding to weekly online posts, voice recordings, crafting email responses, writing persuasive essays, reading short stories and articles, viewing and listening to German-language film and audio, and participation in daily conversations.

Prerequisite: Successful completion of German 5 or German 6 Advanced with a "B+" (87) or better and department approval. (Year)

AP Spanish Language

The goal of AP Spanish Language at Providence Day School is to prepare students for success on the AP Spanish Language Exam. This 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. This course also strives to promote fluency and accuracy in language use. The teacher expects the students to solely use Spanish in the classroom as they engage in daily conversations based around the central themes of the course. The curriculum covers the following units: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. All materials used in the course will come from authentic sources. Some of the activities in which students will engage are: responding to weekly online posts, voice recordings, crafting email responses, writing persuasive essays, reading short stories and articles, viewing and listening to Spanish-language film and audio, and participation in daily conversations.

Prerequisite: Successful completion of Spanish 6 Advanced with an 87% or above and department approval or Spanish 7 Advanced with an 80% or above and department approval. (Year)

Mandarin Chinese 1:

This course is for beginning language students working towards achievement of the Novice Mid proficiency level benchmarks - i.e. using words, phrases and simple memorized sentences to practice and improve upon comprehension and communicative skills. Themes include: "Greetings," "Family," "Dates and Time," "Hobbies," "Visiting Friends," and "Weather."

No prerequisite. (Year)

Mandarin Chinese 2:

Students in Year 2 will build upon the foundation set in Year 1 and work toward the benchmarks of the Novice High proficiency level. Focus will be placed on keeping a conversation going by asking follow-up questions on the same topic and working to understand and talk around words that students may not know. Students are able to understand speech dealing with areas of practical needs in highly standardized messages, phrases, or instructions on familiar topics such as "Making Appointments," "Studying Chinese," "School Life," "Shopping,", and "Transportation."

Prerequisite: Successful completion of Year 1, with a "B-" (80) or better. Successful completion of the Lower School Mandarin Chinese and fifth grade world language teacher approval. (Year)

Mandarin Chinese 3:

Students in Year 3 will build upon the foundation set in Year 2 as students work toward the benchmarks of the Intermediate Low proficiency level. Further practice initiating, sustaining and bringing to a close conversations revolving around familiar situations (themselves, family, friends, school) will be the focus. At this level, students are encouraged to speak as much as possible and to try adding more information (another fact, thought, or question) to keep the conversation going. Communicative tasks will require students to create with the language in straightforward social situations, restricted to concrete exchanges and predictable topics necessary for survival in the target-language culture. Themes include: "Dining," "Asking Directions," "Birthday Party," "Seeing a Doctor", and "Hanging Out".

Prerequisite: Successful completion of Year 2, with a "B-" (80) or better. (Year)

Mandarin Chinese 4:

This course builds upon the foundation set in Year 3 as students begin to work towards the achievement of benchmarks for the Intermediate Mid 1 proficiency level, i.e. being able to handle successfully a limited number of uncomplicated communicative tasks and creating with the language using compound sentences. Students will be required to ask questions in order to sustain a conversation and practice adding new information in order to achieve completion and clarity. Themes include: "Renting an Apartment," "Sports," "Travel," and "In the Airport."

Prerequisite: Successful completion of Year 3, with a "B-" (80) or better. (Year)

Mandarin Chinese 5

This course builds upon the foundation set in Year 4 as students work further to consolidate the achievement of benchmarks for the Intermediate Mid 1 proficiency level.

Students will work toward the ability to handle successfully uncomplicated communicative tasks by creating with the language using compound sentences.

Students will practice to be able to handle successfully a limited number of uncomplicated communicative tasks and creating with the language using compound sentences. Students will be required to ask questions in order to sustain a conversation and practice adding new information in order to achieve completion and clarity. Themes include: "Back to School " "In the Dormitory," "In the Restaurant," and "More About Shopping."

Prerequisite: Successful completion of Year 4, with a "B-" (80) or better. (Year)

Mandarin Chinese 6 (Advanced)

This course builds upon the foundation set in Year 5 as students work towards consolidating achievement to reflect the broad range of abilities for the Intermediate Mid 2 proficiency level. Students will practice telling stories from beginning to end. They will work on describing everything they see in their familiar surroundings (class, neighborhood, home) and practice having conversations about topics beyond their immediate environment. Year 6 students will also practice resolving situations with a complication. They are able to express themselves in well-connected sentences. The themes include: "Course Selection," "Boy/Girl Friend," "Computer and Internet," and "Part-time Jobs."

Prerequisite: Successful completion of Chinese 5 with a "B-" (80) or better. (Year).

Mandarin Chinese 7 (Advanced):

This course builds upon the foundation set in Year 6 as students continue consolidating achievement to reflect the broad range of abilities for the Intermediate Mid 2 proficiency level. Students will practice telling stories from beginning to end. They will work on describing everything they see in their familiar surroundings (class,

neighborhood, home) and practice having conversations about topics beyond their immediate environment. Year 7 students will practice resolving situations with a complication and expressing themselves in well-connected sentences.

Prerequisite: Successful completion of Year 6 with a "B-" (80) or better.

(Year)

AP Chinese Language and Culture

Advanced Placement Chinese Language and Culture includes aural/oral skills, reading comprehension, grammar, and composition. This course provides students with varied opportunities to further develop their proficiencies across the communicative modes (speaking, listening, reading, and writing skills) and the five goal areas (communication, cultures, connections, comparisons, and communities). Students explore both contemporary and historical aspects of Chinese culture by reading Chinese materials. Throughout the course, assessments are frequent, varied, and explicitly linked to content and skills that comprise the learning goals of each unit of study. Students apply their growing knowledge of Chinese culture to communicative tasks in real-life contexts and develop abilities to write and speak in a variety of discourse styles, using both keyboarding and handwriting skills. Students also gain necessary knowledge of Chinese vocabulary, idiomatic expressions, and grammatical structures. The students develop an awareness of China's role in issues of global importance in the areas of energy and environment, economics, and politics. AP Prerequisite: Successful completion of Mandarin Chinese 6 with a "B+" (87) or better and department approval or Chinese 7 with an 80% or better and department approval.(Year)

Latin 1

Latin 1 is a yearlong course which provides an introduction to the Latin language using various methodologies. Through stories set in ancient Pompeii, students increase their vocabulary, develop their reading comprehension skills, learn basic Latin syntax, and explore the many cultural aspects of Roman life.

No prerequisite (Year)

Latin 2

In Latin 2, students travel from one end of the Roman Empire to the other by reading Latin stories set in the unruly province of Britannia to the cultured world of Egyptian Alexandria. In addition to strengthening their Latin vocabulary base, students increase their knowledge of the language through intentional study of grammar concepts and through interpreting stories of increasing complexity.

Prerequisite: Successful completion of Latin 1, with a "B-" (80) or better. (Year)

Latin 3

Latin 3 includes a review of previously learned grammar and vocabulary and introduces new verbal elements such as participles, infinitives, deponent verbs, and several uses of the subjunctive mood. Increased reading proficiency is the primary emphasis of this course. The reading selections and culture studies in this course explore military and civilian life during the first century, A.D.

Prerequisite: Successful completion of Latin 2, with a "B-" (80) or better. (Year)

Latin 4

Latin 4 introduces more advanced grammatical concepts, including irregular verbs, gerunds, indirect statements, indefinite pronouns, and additional uses of subjunctive mood, but it is, primarily, a literature course exploring the works of various prose authors, including Livy and Pliny, as well as providing an introduction to Latin poetry. **Prerequisite:** Successful completion of Latin 3, with a "B-" (80) or better. (Year)

Latin 5 (Advanced)

Latin 5 (Advanced) is a literature course which includes both prose and poetry. The prose portion of the course includes selections from Caesar and from Medieval Latin. Selections from Catullus, Ovid, and Vergil represent both lyric and epic poetry. Students earn advanced credit for this course.

Prerequisite: Successful completion of Latin 4, with a "B-" (80) or better. (Year)

Latin 6 (Advanced)

Latin 6 (Advanced) is a literature course that explores two new Latin genres. Cicero's orations against Catiline introduce students to Roman oratory. Plautus' Menaechmi affords students a glimpse of Roman comedy. A concentrated unit of Latin composition enables students to further refine their understanding of the language. Students earn advanced credit for this course.

Prerequisite: Successful completion of Latin 5, with a "B-" (80) or better. (Year)

AP Latin

This course presents students with the material and skills required for success on the AP Latin Exam. The syllabus includes selections from Vergil's Aeneid and from Caesar's De bello Gallico. Students learn to analyze text, recognize literary devices, and cite underlying themes. Students also review the history and political climate of the first century, B.C. in order to gain a better understanding of these works. **Prerequisite:** Successful completion of Advanced Latin 5, with a "B+" (87) or better and department approval. (Year)

2020-2021		
Course	Term	Prerequisite
Mandarin Chinese 1	Year	
Mandarin Chinese 2	Year	80% or higher in Mandarin Chinese 1
Mandarin Chinese 3	Year	80% or higher in Mandarin Chinese 2
Mandarin Chinese 4	Year	80% or higher in Mandarin Chinese 3
Mandarin Chinese 5	Year	80% or higher in Mandarin Chinese 4
Mandarin Chinese 6 (Adv)	Year	80% or higher in Mandarin Chinese 5
Mandarin Chinese 7 (Adv)	Year	80% or higher in Mandarin Chinese 6
Mandarin Chinese AP	Year	87% or higher in Mandarin Chinese 6 or 80% or higher in Chinese 7 and Department approval.

World Language Course Sequencing

2019-2020

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Course	Term	Prerequisite
French 1	Year	
French 2	Year	80% or higher in French 1
French 3	Year	80% or higher in French 2
French 4	Year	80% or higher in French 3
French 5	Year	80% or higher in French 4
French 6 (Adv)	Year	80% or higher in French 5. Option: Successful completion of Year 4 with an "A" (93%) or better and Department approval.
French 7 (Adv) Francophone Culture through Movies	Year	80% or higher in French 6 Adv. or AP French.
French AP	Year	87% or higher in French 6 Adv. or 80% or higher in French 7 Adv. and Department approval.

Course	Term	Prerequisite
Spanish 1	Year	
Spanish 2	Year	80% or higher in Spanish 1
Spanish 3	Year	80% or higher in Spanish 2
Spanish 4	Year	80% or higher in Spanish 3
Spanish 5	Year	80% or higher in Spanish 4
Spanish 6 (Advanced)	Year	80% or higher in Spanish 5. Option: Successful completion of Year 4 with an "A" (93%) or better and Department approval.
Spanish 7 Adv: Spanish Conversation and Culture	Year	80% or higher in Spanish 6 or Spanish AP
Spanish AP	Year	87% or higher in Spanish 6 Adv. or 80% or higher in Spanish 7 Adv. and Department approval.

Course	Term	Prerequisite
German 1	Year	
German 2	Year	80% or higher in German 1

German 3	Year	80% or higher in German 2
German 4	Year	80% or higher in German 3
German 5	Year	80% or higher in German 4
German 6 (Adv)	Year	80% or higher in German 5
German AP	Year	87% or higher in German 5 or German 6 and Department approval.

Course	Term	Prerequisite
Exploratory Latin	Semester	
Latin 1	Year	8th-12th grade only
Latin 2	Year	80% or higher in Latin 1
Latin 3	Year	80% or higher in Latin 2
Latin 4	Year	80% or higher in Latin 3
Latin 5 (Adv)	Year	80% or higher in Latin 4
Latin 6 (Adv)	Year	80% or higher in Latin 5
AP Latin	Year	87% or higher in Latin 5 and Department approval.

The Art and Science of Teaching

This course is designed to provide students with the opportunity to explore the profession of teaching. Topics covered will include child development, psychology of learning, instructional practices, classroom management, history of Education and more. The course is a project based experience requiring students to actively engage in projects in between the weekly class meetings. Students will be required to do interactive read-alouds, independent studies, design lesson plans, work with students, maintain a blog, and complete a classroom experience.

This course is an elective which will earn you .5 credit. The course meets once a week during Upper School lunch.

Prerequisites - All rising juniors and seniors interested in participating in this course will need to complete an interview process with the instructors.

Upper School Administration & Staff

Mary Jo Adams

World Language World Language Department Chair B.A., Marquette University Appointed: 2010

Tosha Arriola

History World Language Assistant Upper School Head B.A., SUNY Cortland M.Ed., Queens University of Charlotte M.S.O.D., Queens University of Charlotte Appointed: 2018

Jay Barron

World Language B.A., Davidson College M.Ed., University of North Carolina at Greensboro Appointed: 2003

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Physical Education and Health B.F.A., The Los Angeles American Musical Dramatic Academy Appointed: 2016

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Mathematics B.A. Queens College (now Queens University) M.A. University of North Carolina at Charlotte Appointed: 2015

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