Upper School
Program of Studies 2019–20
Francis W. Parker School Mission

The mission of the Francis W. Parker School is to cultivate in its students qualities of character and citizenship that can guide them through life as resourceful, thoughtful and active participants in a democratic society.

Parker aims to be a school where students and teachers thrive on their involvement with ideas and with each other. Through inquiry in the academic subjects, experience in the visual and performing arts, and participation in physical activity and community service, our school intends to inspire each student to strive for excellence and creativity in order to know the pleasures of learning and the value of contributing to the progress and improvement of society. We believe that engagement in each of these areas shapes the intellectual development, emotional maturity and moral life of the growing student.

Our vision is to create a culture in which students and teachers work together to build a humane and joyful school where trust and respect engenders in each person a disposition to question, to reflect, to sustain effort, and to act with empathy, confidence and integrity. Deliberately composed of a diverse group of people, Parker respects the individuality of each student and believes that responsibility, collaboration and intellectual curiosity develop when students are known and feel appreciated by their teachers and classmates, and are encouraged to do their best by stretching themselves beyond their own current achievements and points of view.

Our commitment is to support a community of learners where students feel free and safe and able to explore their imaginations, share who they are becoming, and know the richness of heritage, interests and passions, both their own and those of others. Our purpose is to develop citizens who, with their teachers, connect the experience of the classroom with life throughout the school, with our broader society and with the wider world.

A Parker education leads students to develop the self-discipline, independence of mind and collaborative spirit necessary to apply their values, skills, knowledge and ideas to think and act as vigorous participants in the life of our democracy. In these ways, our school strives to connect reflection with action, insight with innovation, deeds with consequences, and character with citizenship.
The Francis W. Parker School educates students to think and act with empathy, courage and clarity as responsible citizens and leaders in a democratic society and global community.

Francis W. Parker School Mission Statement

A Parker education contains a world of possibilities, and this program of studies book opens students, advisors and parents to an inspiring curriculum created by our faculty in its effort to engage students to discover and achieve what Colonel Parker called, their “…highest degree of knowledge, skill, power and service.”

In this spirit, students are encouraged to talk with their advisors, teachers and parents about choosing courses and determining strategies for study that will lead them to pursue a lifetime of learning and social action citizenship.

Parker’s mission to educate for citizenship and character guides an outstanding faculty that is dedicated to the growth of each student and to the development of a vital school community alive with academic scholarship and artistic expression. Parker’s challenging program of study promotes a spirit of responsibility and fulfillment that allows each generation of Parker students to experience joy in learning, inspiration to pursue excellence, and commitment to participate productively in the challenges that face our diverse democratic society and the wider international world.

In addition to our curriculum, Parker educates its students through the school’s culture, an atmosphere that allows students to work closely with teachers and other students. Parker students develop skills and confidence, discipline and perseverance, and an appreciation for the value of in-depth, collaborative learning through their daily classroom experience, their partnership with their academic advisor, their involvement in the Morning Exercise, and through the participation of all students in the Student Government and its many related activities. Parker's education also includes a wide range of important and enjoyable learning opportunities that students can pursue by participating in robotics, debate and athletic teams, dramatic productions, vocal and instrumental groups, newspaper, yearbook, literary and graphic arts publications, and our many other special interest clubs.

Parker educates students for college and beyond by providing them with a framework for learning about the world, themselves and others. Through experiences designed to support the development of self-confidence, curiosity and imagination, students are encouraged to ask essential questions and seek creative solutions as engaged citizens. The culture of our school, the content of our curriculum and the talent of our teachers offer students opportunities to develop understanding and commitment through a process of learning that teaches skills, fosters discipline and stimulates inspiration for students to think and question, write and reflect, speak and listen, describe and analyze, create and experiment, teach and collaborate, perform and discover.

Daniel B. Frank, Ph.D.
Principal
Francis W. Parker
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## Course Descriptions:

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Appendices:

- **Appendix A**
- **Appendix B**
- **Appendix C**
GUIDELINES FOR COURSE SELECTION

1. When you select the courses that constitute your Upper School program, consult the general and the departmental graduation requirements (see page 8). Students and advisors are responsible for constructing programs that fulfill the requirements for graduation.

2. After registration, all proposed course changes will be reviewed and approved by the Upper School Department Chairs. Be aware that the master schedule of classes is built based on student requests from springtime registration; therefore, major course selection/schedule adjustments become quite difficult after the schedule is built. Any request to drop or add a course must be submitted before the end of the second week of the semester in which the course begins. **Despite the add/drop option at the beginning of each semester, please make your initial course selections carefully and with thought.**

3. Course offerings are subject to sufficient enrollment and teacher availability.

4. **Credit Information**
   - **Definition of a Credit**
     Credit is awarded based on weekly class hours over the course of an academic-year. In general, one credit represents a total of at least 220 minutes of class attendance per week for the entire year. There are some exceptions; for example, due to laboratory requirements, one Science credit represents a total of 275 minutes of class time per week. A one-semester class that meets 4 times a week, therefore, would earn a student 0.5 credit. Credit for courses that meet fewer than 220 minutes per week is allotted on a fractional basis.
   - **Enrollment Status (Semester Credit Load)**
     A student is classified as full-time if he or she is enrolled in a total of 2.5 credits, from any combination of courses, each term. This total does not include the required 0.25 credit for Physical Education each semester. *It should also be noted that if a student elects to enroll in Introduction to Dance and Movement or Continuing Dance and Movement Studies, credit earned for that course will only be calculated as part of full-time load if he or she is concurrently enrolled in Physical Education.*
   - **Total Credits Required for Graduation**
     In addition to fulfilling Departmental Requirements (see p. 9), a student must earn a total of 20 credits (excluding Physical Education) to graduate with a Francis W. Parker School diploma. A student must maintain full-time status for eight semesters, unless otherwise approved by the Head of the Upper School.
   - **Summer Course Work**
     An official transcript indicating credit earned for course work taken over the summer will be appended to a student’s Francis W. Parker School transcript; however, that credit does not count toward the total number of credits required for graduation nor does it count toward fulfilling Departmental credit requirements. Exceptions to this policy can be requested for seniors who have completed eight semesters of course work or for students who are repeating a course.

     Summer work will be considered by the Department Chair in student placement decisions for advanced or upper-level classes.

   - **Course Override Process**
     All rising 10-12 grade current Parker students should complete the course override form (found in Appendix A) by June 14, 2019. All new-to-Parker Upper School students should complete the form by August 28, 2019 or one week from receiving their placement.

     The overrode class is NOT a trial. We expect the student to be in class the entire year. Your schedule may drastically change if the overrode class needs to be changed back to the recommended level. Student initiated changes for year-long classes must occur within the add/drop period.
If the student returns to the teacher-determined level, the student is responsible for the work and content missed. The grade received in the overrode class will follow the student to the teacher-determined class. The grade from the overrode class will be included in the calculation of the semester grade.
Developing the capacity for conducting independent inquiry is central to a Parker education. An Independent Study is a credited course designed by a student and supervised by a faculty member to provide a particular opportunity for such inquiry. Students in the 11th and 12th grades have the opportunity to pursue independent inquiry in any department. An Independent Study requires inner discipline and the ability to establish and fulfill goals. A student may not take more than one Independent Study each semester. The scope of the proposal and the length of time needed will determine the length of the study and the amount of good standing credit awarded for the study. The application form, available from the Upper School Office, includes the nature of the study, the objectives, the materials, and the anticipated outcome. Independent Study may not be granted in lieu of a departmental graduation requirement or required course. Independent Study proposals must be approved by the Department Chair, the Faculty Sponsor and the Head of the Upper School. Please note that Teaching Assistantships in all departments are applied for through completion of an Independent Student proposal form and are subject to the same deadlines as other Independent Studies.

Pursuit of an Independent Study aims to provide the student with a special opportunity for learning and growth in a manner that is not intended to isolate the student from the school. Each student enrolled in an Independent Study presents, in some fashion, the results of his or her endeavors to the broader school community. Students are responsible for funding all aspects of their own Independent Study; however, materials necessary for projects that are directly related to improvement or enhancement of the physical space of the school may be reimbursed.

Application forms are available via email from the Upper School Office and on the portal. They must be submitted with necessary signatures by **APRIL 3, 2019** for a first semester and by **OCTOBER 7, 2019** for a second semester proposal.
GRADUATION REQUIREMENTS

For the

Classes of 2020, 2021, 2022 and 2023

Please refer to specific departments for detailed requirements.

<table>
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<th>DEPARTMENT</th>
<th>GRADE LEVEL(S)</th>
<th>REQUIREMENTS</th>
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<tr>
<td><strong>English</strong></td>
<td></td>
<td></td>
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<tr>
<td>Reading and Writing Across the Genre</td>
<td>Grade 9</td>
<td>Total: 4 credits</td>
</tr>
<tr>
<td>World Literature</td>
<td>Grade 10</td>
<td>1 Year</td>
</tr>
<tr>
<td>American Literature</td>
<td>Grade 11</td>
<td>1 Year</td>
</tr>
<tr>
<td>Two/Year-long Elective Semesters</td>
<td>Grade 10-12</td>
<td>2 Semesters/1 Year-long</td>
</tr>
<tr>
<td><strong>General Curriculum</strong></td>
<td></td>
<td>Total: .75 credit</td>
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<tr>
<td>Seminar in Health Education</td>
<td>Grade 9</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Senior Seminar</td>
<td>Grade 12</td>
<td>2 Semesters</td>
</tr>
<tr>
<td><strong>History &amp; Social Studies</strong></td>
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<td>Total: 3 credits</td>
</tr>
<tr>
<td>Themes in World History</td>
<td>Grade 9</td>
<td>1 Year</td>
</tr>
<tr>
<td>Modern World History I</td>
<td>Grade 10</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Modern World History II</td>
<td>Grade 10</td>
<td>1 Semester</td>
</tr>
<tr>
<td>United States History I</td>
<td>Grade 11</td>
<td>1 Semester</td>
</tr>
<tr>
<td>United States History II</td>
<td>Grade 11</td>
<td>1 Semester</td>
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<tr>
<td><strong>Integrated Learning and Information Sciences</strong></td>
<td>Grades 9-12</td>
<td>Total: .5 credits</td>
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<tr>
<td>Introduction to Computer Programming</td>
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<tr>
<td><strong>Languages &amp; Cultural Studies</strong></td>
<td>Grades 9-12</td>
<td>Total: 3 credits</td>
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<tr>
<td>Two sequential years in one language</td>
<td></td>
<td>2 Years</td>
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<td>One additional year in any language</td>
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<td>1 Year</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>Grades 9-12</td>
<td>Total: 3 credits</td>
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<td></td>
<td></td>
<td>3 Years</td>
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<tr>
<td><strong>Performing and/or Visual Arts</strong></td>
<td>Grades 9-12</td>
<td>Total: 2 credits</td>
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<td></td>
<td>4 Years</td>
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<tr>
<td><strong>Physical Education</strong></td>
<td>Grades 9-12</td>
<td>Total: 2 credits</td>
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<tr>
<td><strong>Science</strong></td>
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<td>Total: 3 credits</td>
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<tr>
<td>Biology</td>
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<td>1 Year</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Physics</td>
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<td>1 Year</td>
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ENGLISH

The faculty of the English Department works together to create a curriculum that spans a wide range of ideas, experiences, concepts, themes and styles in reading and writing that artists and thinkers have considered and written about for hundreds of years. We offer students a wide array of literature to read and to discuss; our curriculum is based in shared exploration of meaningful human experiences. We aim to create not just good readers but readers who love literature.

Our courses seek to maximize student involvement as readers, writers, and thinkers in our required courses and in diverse, rich elective offerings. Our hope is that students select courses that will not only enrich their appreciation for literature and develop their skills as writers, but that students will select and take advantage of courses which will help them to get a glimpse of the world of experiences and voices that go beyond our campus community and into the widening world around us.

GRADUATION REQUIREMENTS:

A. Three year-long required courses:
   1. Grade 9:  Reading and Writing Across the Genres
   2. Grade 10: World Literature
   3. Grade 11: American Literature

B. And at least one year-long or two semester-long elective courses, which this year includes:

   Literature and Censorship
   Comedy in Literature
   Creative Non-Fiction
   The Black Voice in America
   Identity Development in Contemporary Culture
   Writers’ Studio
   Poetry
   The Graphic Novel
   Shakespeare
   Twentieth-Century British Literature
   Issues of Race, Class, Gender and Sexual Orientation
   Science Fiction: Essential Questions

REQUIRED COURSES: Grades 9-11

READING AND WRITING ACROSS THE GENRES, US1505
(1 YEAR/1.0 credit) Grade 9

This course asks students to explore the various forms through which writers share their passions and ideas with readers and the tools they use to achieve their desired impact. The literary genres studied include fiction - drama, poetry, novel/ novella, and short story - and nonfiction - autobiography, biography, personal essay, memoir, and literary journalism. Within each genre students will read representative works, analyze their elements and effects, and write their own pieces. The goals of the year are to gain a deeper understanding of literary genres, to evolve as readers and thinkers, and to develop their voices as writers. Students are encouraged to consistently share their ideas and writing with each other.

Writers studied include playwrights such as Reza, Wilson, Blessing, and Shakespeare; poets such as Brooks, Komunyakaa, St. Vincent Millay, Olds, Williams, Roethke, Plath, Collins, Finney, Gluck, and Young; novelists such as Carroll, Chopin, Cisneros, and Steinbeck; short story writers such as Boudinot, Oates, Garcia Marquez, Mahfouz, and Poe; and, essayists such as Sedaris, Wolfe, Kingston, and Angelou.

WORLD LITERATURE, US1405
(1 YEAR/1.0 credit) Grade 10

Around the world, across culture and throughout history, we tell stories. This course examines the stories we tell, why we tell them, and how we craft them. We will examine works from Nigeria, India, Pakistan, Japan, France, Iran and Greece, among other locales. We will consider themes and ideas such as individual and cultural identity formation, travel, journey, migration and immigration, cultural values, mores, norms and transgressions;
We will compare and discuss the characteristics of the hero from around the world. We will also examine and practice narrative techniques and point of view.

Works studied may include *The Odyssey, The Thing Around Your Neck, The Arrival, The Metamorphosis, Unaccustomed Earth, after the quake, Persepolis, The Reluctant Fundamentalist, Mothsmoke, Hedda Gabler, Our Country’s Good,* and many others.

**AMERICAN LITERATURE US1315**  
(1 YEAR/1.0 credit) Grade 11

This course invites students to participate in the richness and variety of American language, literature, and culture. It begins with aspects of the American character, emphasizing the development of collective habits and the persecution individuals suffer when they challenge those habits. We study and listen to the work of some of America’s distinctive literary authors, writing our own poetry, prose and drama suggested by the ideas and strategies of these works. Another concern of the course is the problem of Belonging in America.

We look at poetry, fiction, drama, and essays that explore the search for meaning, humor, and dignity in a land that makes us feel our difference.

Works studied include: *The Scarlet Letter, The Great Gatsby, Beloved, Buried Child, A Streetcar Named Desire, Sula, A Raisin In The Sun, Clybourne Park, As I Lay Dying, This Is How You Lose Her, The Crucible;* fiction by Whitehead, Faulkner, Hemingway, and Alexie; short nonfiction by Hurston and Thoreau; Native American speeches; and poetry by Phillis Wheatley, Anne Bradstreet, Martin Espada, Emily Dickinson, Walt Whitman and the Hansell visiting poet.

**ELECTIVE COURSES: Grades 9-12**

**NOTE I:** Preference is given to 12th graders so that they can fulfill the graduation requirement, 11th graders may request electives, however are encouraged to weigh their decision carefully. (10th graders may seek permission from the department chair to enroll in an elective.)

**NOTE II:** All English electives depend upon sufficient enrollment. The timing of these courses (first or second semester) is tentative, dependent upon student enrollment and teacher availability.

**NOTE III:** In registering for elective courses, students must indicate a 1st choice, 2nd choice and 3rd choice elective for each semester.

**YEAR LONG ELECTIVE COURSES: Grades 11-12**

**THE BLACK VOICE IN AMERICA US1445**  
(1 YEAR/1.0 credit) Grades 11-12

“…And in Afro-American Literature, the question of difference is, of essence, is critical. What makes a work Black?”

-Toni Morrison

“Unspeakable Things Unspoken: the Afro-American Presence in American Literature.”

Should literature of any kind have an agenda? What makes a work “Black”? In this year long course entitled The Black Voice… in America, students will explore various ways Black experiences in America have been, and continue to be, formally and informally documented and chronicled. Students will engage the work of Hurston, DuBois, Morrison, Naylor, Baldwin, and others to answer the aforementioned questions. Through readings, conversations with artists and scholars, community based writing days, documentary film studies, and more, we will draw distinctions between “literatures” to understand the aforementioned questions. By using multiple disciplines (sociological, historical, post-colonial) to examine the literature, students will be exposed to the ever-evolving ways the Black American voice serves as a unique way to reread, reframe, and rethink America and the American experience; they will respond to readings, analytically, creatively, and personally. Students should plan to finish the course with an expanded knowledge of the history and legacy of Black expression.
THE GRAPHIC NOVEL  US1305
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 11-12

The genre of the graphic novel is currently in the midst of a kind of renaissance. Some of the best graphic novels in the history of the genre are being published right now. It is also a genre that contains many other genres within it, such as literary fiction; science fiction; memoir, biography, and autobiography; mythology; and history and historical fiction. In this course, we will explore a variety of graphic novels that span many of these genres, discussing why this format might be used instead of more “traditional” prose formats, looking at current trends and unique ways of storytelling in graphic novels, and exploring how art and text work together in intriguing and effective ways. Texts will include, among others Stitches, Watchmen, Saga, Y: The Last Man, and My Favorite Thing Is Monsters, The Hunting Accident, and examples of Japanese Manga texts.

POETRY US1600
(Offered first semester/0.5 credit) Grades 11-12

“There is a pleasure in poetic pains
Which only poets know.”
– William Cowper

Studying poetry deeply, carefully, and patiently doesn’t have to smother a student’s raw and immediate love for a poem. Rather, when done gleefully, and with an open and curious mind, the study of poetry can--and really should--enable a student to discover, deepen, and enrich such love. This poetry course is for students committed to such reading and such love. What we won’t be doing, in other words is “tying the poem to a chair with rope/ and torturing a confession out of it.” What we will be doing is “taking a poem/ and holding it up to the light/ like a color slide” and “pressing an ear against its hive.” Students will be asked to write about poetry as well as to compose and workshop their own. The school’s Visiting Poet Series will also feature in our course, particularly in our work with the current year’s visiting poet. We will also meet with various local poets and scholars.

Poets studied will include: Allen Ginsberg, Rita Dove, Seamus Heaney, Dickinson, Espada, Kevin Young, Whitman, Langston Hughes, Stevens, Creeley, Dybek, Shakespeare, cummings, Nikky Finney, Bishop, Komunyakaa.

SHAKESPEARE US1411
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12

This course will develop an understanding of the range of Shakespeare’s work and its relationship to his era, the English Renaissance. Students will read six to eight plays, many of which they will watch in class as well as read articles on the Renaissance. They may also attend productions of Shakespeare’s plays at Chicago theatres. Students will write daily reflections in which they respond to specific speeches, characters and scenes from the plays. The final project will consist of a paper presenting a thesis about the plays, Shakespeare’s life, and his era as well as a polished performance from the plays.

COMEDY AND LITERATURE US1325
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 11-12

Humor is an inherent aspect of human nature. Why do we love to laugh? What makes us laugh? In this course we will examine the craft of comedy. How do writers use humor to make us laugh but also to help us cope with aspects of life that are nerve-wracking, painful, and hard to understand? From joke-telling to satire, we will uncover the humor of life and truth of comedy. As the old adage says, “Many a true word is spoken in jest.” Our source material will include works of farce, parody, irony, and satire by authors such as William Shakespeare, Kristen Wiig, Woody Allen, David Sedaris, Kevin Young, Jonathan Swift, Mark Twain, and Tina Fey. You will also study the performance and written work of a comedian of your choice. Over the course of
the semester you should be prepared to respond personally to the work, analyze passages, give presentations, and create your own humorous pieces.

**ISSUES OF RACE, CLASS, GENDER AND SEXUAL ORIENTATION US1545**
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 11-12

During this semester long course, students will examine the matrix of race, class, gender, and sexual orientation. Our readings will include personal essays, poetry, news articles, blogposts, and a rich anthology of collected essays about the issues as they exist individually and intersectionally. Students are asked to consider their social identities and questions about how race, culture, class, sexual orientation work together all at once to create identity. We will define and consider the application of the terminology of RCGSO, and we will consider the nature of oppression at institutional, structural, and personal levels. We will think about the role of history in the development of identity and patterns of oppression and liberation, and we will look at contemporary contexts involving RCGSO. Using novels, short stories, films, and of course seminar style discussion, students will be deeply immersed in thinking and conversation about RCGSO throughout the semester. Students are required to keep a weekly journal, craft a mid-semester project, and create a final demonstration of their learnings at the close of the semester. Goals of the course are to leave students with a wider vocabulary of experience to use to reflect upon their own lives as well as in experiences and interactions that are racialized, gendered, or classed.

Texts may include: *Race, Class, and Gender: An Anthology,* “Cracking the Codes,” “The Slanted Screen”, “Miss Representation,” *The Silence of our Friends,* and others.

**IDENTITY DEVELOPMENT IN CONTEMPORARY CULTURE US1410**
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12

**What is identity & how is it explained?** What special issues surround adolescent identity development? If “there is no identity without society,” according to JE Cote, then what role do individuals have in shaping their own identities, and what role does contemporary/popular culture play in the shaping of identity? Is there a “true self” to which we can aspire, or does identity remain fluid over the life course?

Students in this course will pursue these and other questions through the study of Eriksonian Identity Development theory. Using Erikson’s life course framework as expanded by Jane Kroger (and others) we will examine more closely the way that late adolescent identity develops as a result of exposure to contemporary cultural sources as well as the relational and contextual settings of school and family. We will look at the ways that other scholars (Cote, Sue, McAdams, Helms, Harriman and others) have added to the body of knowledge about identity development over the life course. Moving forward, we will define popular culture and examine its relationship to identity development. As Cote reminds us, we can’t ignore the society and culture that surround us; the culture in which we live has a very strong impact on our identity development. This course will look at the ways that identity choices are presented in contemporary culture, in particular through popular texts, including novels, magazines, and films. Alongside technical and theoretical works on identity, students will craft their own identity frameworks, profiles, and a final narrative essay.

**LITERATURE AND CENSORSHIP US1565**
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12

It has been said that if you want to learn about a society, you should take a look at the people whom that society puts in jail. This course takes for its premise the idea that we can likewise learn about a society by studying the literature that blacklists, bans and censors. Why do we censor, challenge or ban a book? What do those reasons tell us about our culture? Throughout history, societies have repressed books and authors they have found inflammatory, sacrilegious or otherwise objectionable. Artists, after all, tend to push social and political norms, and societies tend to push back. This course seeks historical understanding of this tension—and the cultural anxieties, desires and prejudices it reveals. By reading a collection of banned novels, short stories and poetry, we will explore the stunning beauty, variety and creativity of the language and images that have so unnerved—indeed, outraged—individuals and governments over the course of our country’s history.
Possible works include: Ginsberg’s *Howl*, Whitman’s *Leaves of Grass*, Twain’s *Adventures of Huckleberry Finn*, Chbosky’s *Perks of Being a Wallflower*, Proulx’s *Brokeback Mountain*, Nabokov’s *Lolita*, and a selection of articles and essays.

**CREATIVE NONFICTION**  **US1595**  
(Offered second semester) (1 SEMESTER / 0.5 credit) **Grades 11-12**

“It’s about making facts dance.”
-Ben Yagoda

In this course we’ll discover how nonfiction—whether the personal essay or memoir, the magazine-style profile or feature, or any of a number of other genres rooted in fact—can be as literary, as imaginative, as significant, and as formula-defying as poetry fiction. This workshop-centered writing course is open to all students seeking to improve their craft and explore both themselves and the world around them—and to those curious minds interested in the boundaries and possibilities (truth? post-truth?) that creative nonfiction continues to explore. We will compose extraordinary long-form stories like these: Auditioning for Clown College, the Life of a Staten Island Ferry Bagpiper, and The Pleasures of Hating. And we will read more than we write.

Readings will include selected models from an array of work ranging from the early twentieth century and before to the contemporary, including: Eula Biss, Capote’s *In Cold Blood*, Claudia Rankine, Sedaris, Baldwin, Dillard, Nabokov, Didion, Bauby’s *The Diving Bell and the Butterfly*, Kingston’s *The Woman Warrior*, Richard Rodriguez, Foster Wallace, E. B. White, Hurston, John Jeremiah Sullivan, Rakoff, Orwell, Saunders.

**WRITERS’ STUDIO**  **US1610**  
(Offered second semester) (1 SEMESTER / 0.5 credit) **Grade 11-12**

“You’ll never have time to write. You have to make time to write” (Nikky Finney). Is writing your passion? Your Achilles’ heel? Have you always wanted to spend more time focusing on writing? Join us in the Writers’ Studio to practice your craft and hone your skills. You will get a taste of the writer’s life, creating multiple drafts and critiquing other’s work. Students will study the craft elements of creative forms, beginning with the art of the sentence and engaging in a variety of exercises to stretch our writing muscles. Students are encouraged to experiment in fiction, poetry, creative nonfiction, graphic and other formats. Ultimately, we will produce a variety of personal, creative, and analytical pieces. Each time, we will workshop with peers. Be prepared for your work to be shared with a partner and the class as a whole; we will be working as a studio. The emphasis of this course is on producing a portfolio of your work, so there will be much more writing than reading.

**SEMESTER LONG ELECTIVE COURSES: Grade 12**

**SCIENCE FICTION: ESSENTIAL QUESTIONS**  **US1575  *subject to enrollment***  
(Offered first semester) (1 SEMESTER / 0.5 credit) **Grade 12**
Prerequisite: Concurrent enrollment in *Science Discovery: Essential Questions* US3975

How do science discoveries influence science fiction writers, and in turn how does science fiction writing influence scientists in their discovery process? This course will examine the interplay between scientific discovery and literary creation, exploring how scientists and writers pursue similar questions in their respective disciplines, and how each discipline challenges the other. This pairing of laboratory science and literature courses asks students to explore how the scientific discovery process is often driven by factors outside the realm of science, factors such as societal context and literature. At the same time, they will examine how science fiction writers consider the ramifications of discovery and invention to provide a warning – or at least to encourage further thought – about the impact of breaking new and uncharted ground. This project-based course will explore areas such as climate change and environment; genetics and genetic research; robotics and artificial intelligence; and apocalyptic visions as they relate to each of these areas.

In this course students will write in both scientific and literary formats, exploring the language each uses to best convey ideas to their respective audiences. Students will write speculative short stories and literary analysis
papers in addition to writing literature reviews of articles from science journals for both professional and general audiences, and original research papers after designing and conducting laboratory experiments.

A joint final project for SCIENCE DISCOVERY: ESSENTIAL QUESTIONS and SCIENCE FICTION: ESSENTIAL QUESTIONS will ask each student to write an original research paper and craft a science fiction short story around a self-generated specific and consequential question.

**NOT OFFERED 2019-2020**

**MODERN BRITISH LITERATURE US1425**
(Not Offered 2019-2020) (1 SEMESTER/0.5 credit) Grades 11-12.

“On or about December, 1910, human character changed.” And so did literature, and so did the English language. What was it that changed? How did artists respond to that change? This course introduces the work of five great modern writers who reshaped the contours of literature and language: Yeats, Joyce, McDonagh, Beckett, Smith, and Mansfield. These artists faced the challenges of the modern world by stretching the boundaries of the novel, the poem, and the play. Course work features written pieces, student presentations, and projects concerning each author. At the end of the semester, students will select the work of a modern British poet for independent reading and a presentation to the rest of the class.
SEMINAR IN HEALTH EDUCATION US0015  
(Offered both semesters) (1 SEMESTER/0.5 credit) Grade 9

Good health and well-being arise from the harmonious integration of physical, psychological and social aspects of our lives and not merely the absences of illness or infirmity.

The overarching goals of Health Seminar are two-fold:
1. To support students by giving them the skills and knowledge necessary to transition and succeed in the Upper School,
2. To continue the work of laying a foundation for sustaining life-long healthy habits.

Two major emphases of the course are Social/Emotional Learning and physical well-being. Social and Emotional Learning (SEL) is the process through which students acquire and effectively apply the knowledge, attitudes, and skills necessary to understand and manage emotions, set and achieve positive goals, feel and show empathy for self and others, establish and maintain positive relationships, and make responsible decisions. Another important aspect of SEL, and an adolescent milestone, is the discovery and development of one’s personal and social identity and their interplay between self and community. Finally, physical health addresses the needed foundation of proper sleep habits, solid eating and nutritional information and the importance of a variety of exercises that underlie proper growth, development and performance.

SENIOR SEMINAR US0150 (first semester) US0155 (second semester) *Pass/Fail issued for grade*  
(1 YEAR/0.25 credit) Grade 12

The purpose of Senior Seminar is to support seniors in managing the variety of demands they face in their final year at Parker. Senior Seminar is a yearlong, two semester course that meets once a week and has a Pass/Fail grading system. Our aim is to both deliver needed and timely information facing seniors on a variety of topics as well as help process such material through a small group experience. Senior Seminar will provide the time and space to address some of the issues and pressures of balancing academic progress and relationships, old and new. Using a seminar format, instructors proactively address the varying and unique needs and tasks that seniors face in the course of the year while introducing them to methods for lifelong social and emotional health.

In addition to handling the details and tasks of senior life, Senior Seminar also creates an opportunity to better assist, process and guide seniors to reflect upon their final year at Parker and intentionally prepare for transitioning to life beyond high school. Senior Seminar will also explore issues of personal and public identities, reflect on the meaning of being a responsible citizen within the community and global society. The seminar will also include health and psychologically related topics such as stress management, sleep, hygiene, self-care, communication across differences, healthy relationships, changing social dynamics, and a variety of other issues related to emotional intelligence (the importance of grit, flexible mindsets, resilience, goal setting, anger and anxiety management and more). These are core and essential psychological concepts that lay a foundation for success after high school. In short, the course is designed to help seniors engage, reflect and transition in their final year at Parker. Schedule: meets once a week
HISTORY & SOCIAL STUDIES

The faculty of the History Department aims to develop a sense of judgment, wisdom, and shared humanity by engaging students in a dialogue with the past, with different cultures, and with their own experience of society.

“I believe once more that history is of educative value in so far as it presents phases of social life and growth. It must be controlled by reference to social life. When taken simply as history, it is thrown into the distant past and becomes dead and inert. Taken as the record of man’s social life and progress it becomes full of meaning. I believe, however, that it cannot be so taken excepting as the child is also introduced directly into social life.”
—John Dewey

GRADUATION REQUIREMENTS: 6 SEMESTERS. Students must take six required courses that total six semesters of history. It is also recommended that students take additional courses that they may select from the elective courses offered on the following pages.

REQUIRED COURSES: GRADES 9-11

THEMES IN WORLD HISTORY US2251
(1 YEAR/1.0 credit) Grade 9

*Themes in World History* provides an overview of the history of the world as seen through thematic patterns and ethical questions, designed around four major themes:

1. Human Interaction with the Environment
2. Government and Leadership
3. Religion
4. Law and Human Rights

For each of these themes, students examine major historical questions rooted in the ancient world, tracing turning points in their development and impact through history up to the modern day. Students will advance their ability to comprehend the thematic questions within an historical context with an eye towards the current world situation and the students’ place in shaping the future. The course will build upon the research and writing skills acquired in middle school, but will also provide an introduction to the skills (writing, participation, analytical thinking) required to be successful history students at the secondary level. Students will synthesize broad content taken from throughout world history to deconstruct and analyze themes present across national, cultural, ethnic, and historical lines. It is our goal to facilitate the kind of citizenship that is called for in Francis W. Parker’s statement: “The needs of society determine the work of the school...The supreme need of society is good citizenship ... Ideal citizenship demands of the individual the highest degree of knowledge, power, skill, and service.”

MODERN WORLD HISTORY I US2261
(Offered first semester) (1 SEMESTER/0.5 credit) Grade 10

Building on the content, skills and themes that students learn in their 9th-grade *Themes in World History* course, the *Modern World History* curriculum guides students in seeing the unfolding of the world’s history from a global and topical perspective. The course emphasizes global interactions and comparisons by combining chronological and thematic approaches. Through intensive, inquiry-based studies of events throughout modern history, students will develop relevant historical questions, analyze cause-and-effect relationships among events, synthesize historical data for the purposes of research, and demonstrate proficiency in the skills necessary for advanced historical inquiry. By focusing on a distinct topic, students have greater opportunities to examine economic, political, and cultural interactions, as well as to compare societies’ unique developments. Such an approach also ensures that students gain a sound understanding of historical thinking that is necessary for comprehending the past, but also for understanding their world today.
Sophomores must complete two seminars, one in each semester, with placement determined by scheduling availability – you do NOT need to register for individual seminars. Sophomore Seminar topics for 2019-2020 include the following:

<table>
<thead>
<tr>
<th>First semester</th>
<th>Second semester</th>
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<tr>
<td>• Imperialism 1800-Present</td>
<td>• War and Non-Violence 20th Century- Present</td>
</tr>
<tr>
<td>• Revolutions</td>
<td>• Roots of World War: the Pacific and Eurasia</td>
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<tr>
<td>• Nations, States and Terrorism</td>
<td>• Crimes Against Humanity: Nuremberg to the TRC</td>
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**MODERN WORLD HISTORY II**  **US2265**  
(Offered second semester) (1 SEMESTER/0.5 credit) Grade 10

**SEE COURSE DESCRIPTION ABOVE.**

**UNITED STATES HISTORY I**  **US2310**  
(Offered first semester) (1 SEMESTER/0.5 credit) Grade 11

*United States History I* is a survey of the national history from the fifteenth through the mid-nineteenth centuries. This half of the two-semester sequence takes a chronological approach, which explores the clash of cultures in the colonial period; the creation of the state and national political systems; the tension between idealism and individual self-interest; the goals, methods, and impact of reform movements; and the competing claims of liberty and authority up through the end of the U.S. Civil War. Our goals are to enjoy, embrace, and experience the value of studying U.S. History while becoming culturally literate and critical thinkers. Along the way, we will fine tune our speaking, reading, and writing skills to a scholarly level. *U.S. History I* serves as the forum for students’ participation in the Civic Engagement program for 11th grade.

**UNITED STATES HISTORY II**  **US2410**  
(Offered second semester) (1 SEMESTER/0.5 credit) Grade 11

*United States History II* is a survey of the national history from the mid-nineteenth century through the present. This second half of the two-semester sequence takes a thematic approach to the period from Reconstruction through present day. The course will address particular themes in American history from the late 1800s through today, including the legacy of Reconstruction, industrialization and its consequences, issues of immigration, the U.S. as a world power, and so on. For example, we will cover the Legacy of Reconstruction from the 1870s through the Civil Rights Movement, and finish with today’s issues related to affirmative-action, racial profiling, and contemporary civil rights concerns. Students who wish to take either the Advanced Placement examination in American History or the Scholastic Aptitude Test for United States History will find that the two-semester sequence provides a suitable foundation, with additional outside preparation. *U.S. History II* continues the work begun first semester with American Literature for students’ fulfillment of the 11th grade Civic Engagement program.
ELECTIVE COURSES:

CIVIL LIBERTIES AND THE AMERICAN STATE  US2867
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12

“Enslave the liberty of but one human being and the liberties of the world are put in peril” (William Lloyd Garrison). In Civil Liberties and the American State, students of all ideological backgrounds explore the spectrum of positions on the most pressing issues in contemporary society. With a “ripped from the headlines” orientation, students debate enduring constitutional questions, such as the right to privacy, capital punishment, the impact of the drug war, the rights of terrorism detainees, affirmative action, LGBTQ+ rights, and the ongoing realities of segregation and sexism. Students will explore a rich variety of print, visual, and cyber sources as they analyze historic American values, such as freedom of expression, equal protection under the law, the right of the people to keep and bear arms, the right to be free from cruel and unusual punishment, and the right to equal protection under the law. In a rewarding and stimulating seminar setting, students apply their learning to an on-going analysis of current events and contemporary cases before the U.S. Supreme Court. Special focus is placed on constitutional issues with particular resonance for students and young people. Guest speakers of the Chicago legal community and beyond regularly join class to shed light on our inquiry and offer modern perspectives on important constitutional problems. Through writing, discussion, and oral argumentation, students learn to fulfill the Jeffersonian mandate that in a democracy, we must be vigilant and knowledgeable watchdogs of our individual freedoms.

SOCIAL ENTREPRENEURSHIP  US2990
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 10-12

Social entrepreneurship involves using the skills and strategies of business to innovatively and sustainably solve social, environmental, and economic problems. The ventures created by social entrepreneurs can be non-profit, for-profit, or an innovative hybrid of the two. What distinguishes social entrepreneurs is their unrelenting dedication to achieving their “mission” (rather than measuring their success by their financial bottom-line). They are working to create positive social change, fostering economic and social equality, and ensuring human rights in our local community and across the world. This involves a commitment to sustainability by decreasing their waste/environmental impact & enhancing the quality of life in their community – while providing an outstanding product or service to their customers. This course introduces students to social entrepreneurship through case studies, key readings, authentic learning experiences in the field, and primary information resources. Meeting with a team of real-life social entrepreneurs, students will become familiar with organizations and methods through service-learning projects, and will begin to develop skills demonstrated by successful social entrepreneurs, including team building and leadership, negotiation, and working in complex social and cultural environments. Students will also be required to learn the social role of digital communication in the advancement of both a cause and an entrepreneurial goal. They will explore the sources of funding for social enterprises, including philanthropy, governmental funding, and income generating, self-sustaining social enterprises. Students will have a series of authentic experiences in the field in which they are asked to interact with and present to working entrepreneurs in an effort to understand the realities of the field today. Finally, students will be asked to develop their own entrepreneurial endeavor, write a business plan and create and execute a pitch deck for an audience of local entrepreneurs.

SOCIOLOGY OF SPORTS  US2590
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 10-12

In this seminar, sports will serve as a prism to illuminate vital aspects of contemporary society including social class, consumerism, gender dynamics, ethics and race relations. Students will come to better understand change over time in the fabric of American culture and the role that sports play in modern life. Special areas of study include racial segregation and integration, the twin births of spectator sports and consumer culture, the rise of feminism, and the role of sports in childhood. The course will utilize a wide range of activities and assessments, including creating a documentary film and participating in a debate assessing the impact of sports on secondary and collegiate education. Course materials include secondary sources such as Dave Zirin’s "A People’s History of Sports in the United States" and David Remnick’s biography of Muhammad Ali, "King of the World." A majority of
the assessments for the course are projects intended to provide students with authentic opportunities to engage in critical thinking about sport and American society.

**INTERNATIONAL RELATIONS US2530**
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 10-12

This one-semester elective course, open to 10th through 12th grade students, explores international relations, including the role of the United States in world affairs from the Monroe Doctrine to the Obama Doctrine, and how the current administration in the White House could be a turning point in U.S. foreign policy, and the part played by international counterparts. An important question in this course is, what are the global challenges facing the U.S. today and how does the government make foreign policy decisions in response? Students will learn the language of foreign policy, key people and institutions, and major theories of international relations necessary to understand the world today. We will examine issues of global significance: cyber warfare, climate change, nuclear proliferation, human rights, ethnic and religious conflict, international terrorism and diplomacy versus the use of military. A significant emphasis of this course is therefore on understanding current events. Students are expected to research and write expository essays on former and current policies, and research and write policy proposals. Students will also prepare role-plays and formal debates, engaging in lively and respectful discussion as a way to deepen our understanding of foreign relations issues and offer possible solutions. Chicago is the host to many forums on international relations and we will arrange to attend speeches and panel discussions by experts, and when possible we will have guest speakers address the class. This elective course is ideal for students interested in broadening their understanding of the world they are inheriting and seek to improve, and developing their critical thinking, speaking and writing skills.

**ETHICS US2520**
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 10-12

The study of ethics examines human morality and behavior in an effort to determine the rightness or wrongness of our actions. Today’s ethicists study a broad variety of contemporary ethical problems, such as abortion, animal rights, the death penalty, our duty to the environment, our duty to help one another, and euthanasia, to name a few. This discussion-based course in moral philosophy is anchored upon the literature of both classical and modern ethicists but it also engages with contemporary issues. Students will study ethical philosophies, such as virtue ethics, deontology, utilitarianism, and existentialism. The course includes reading excerpts from a variety of philosophical sources; viewing, discussing and writing about films that pose issues of moral or ethical significance; writing a series of reflective pieces; and selecting, researching, and writing about a contemporary ethical issue about which you hold a strong opinion. The final and many of the assessments for the course are projects intended to provide students with authentic opportunities to engage in ethical study and analysis.

**CIVIL RIGHTS MOVEMENT US2840**
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 11-12

The purpose of this course is to analyze the legacy of Reconstruction following the Supreme Court decision of *Brown vs. the Board of Education*. This will be an intellectual challenge to bring together the pivotal events and heroic leaders of the Civil Rights Movement on their quest to end legalized segregation. Students will develop an in-depth understanding of this seemingly endless struggle for equality through the three stages of the Civil Rights Movement. Students will be given the opportunity to analyze the events and people who were the most influential components of this historic epic of the ever-changing American identity. Starting with the murder of Emmett Till, we will cover many key events such as the Little Rock 9, Sit-ins (Greensboro), Montgomery Bus Boycott, Freedom Rides, Birmingham and Bull Connor, Freedom Summer, the Boston Busing Crises, Vietnam, Selma Marches, Bloody Sunday, and the assassinations of MLK, RFK, Malcolm X, and Medgar Evers. It will be imperative that we explore the various leaders and objectives behind the civil rights organizations such as the SCLC, SNCC, CORE, the Black Panthers, and the ACLU. We will be working in conjunction with the African-American Literature and Issues of Race, Class, Gender and Sexual Orientation classes. At times, we will combine our efforts through film, field trips, guest speakers, and common texts. The goal will be an interdisciplinary experience between history and literature of the Civil Rights Movement. Each Spring, there will be an opportunity for the combined courses to travel to the South as an extension of our curriculum.
CREATING HISTORICAL DOCUMENTARIES  US2010
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 10-12

In Historical Documentaries students will research, write, film, edit and produce a medium length documentary (or at least two shorter documentaries) about an important historical event, moment, crisis, or social justice cause. Students will watch and critique a variety of important historical documentaries to help identify what makes exceptional films. And this interdisciplinary course will provide students opportunities to learn and sharpen key historical skills, including writing, research and storytelling techniques. Additionally, students will gain experience with pre-production, shooting, lighting, interview techniques, editing, graphics and audio. This class uses full HD cameras and Final Cut X to create professional quality videos.

ECONOMICS AND SOCIETY  US2601
(Offered second semester) (1 SEMESTER/0.5. credit) Grades 10-12

This is a very exciting time to study economics and the national and global economies, and the politics of the current administration in the White House promises significant change. In Economics and Society we will survey domestic and international economic changes to gain an understanding of how economics work and how we are affected as a nation, and those beyond our borders. We will focus on the historical development of economic theories and economic practices in the U.S. and globally, and see how economics and politics overlap. A significant part of this course is driven by current socio-economic events and developments. We also look at how people and societies are affected by economics through their individual decisions and through government policies, and also, how human culture is shaped by economic systems. Central questions to the course include: How does a country come to have its economic system? Does a nation’s economic system evolve naturally? What is/should be the role of the government in the economy? What are trade unions and what role have they, and do they continue to play in the U.S. and abroad? Why are there rich/poor people and countries? What is globalization? Why has capitalism not worked to end poverty at home and in some parts of the developing world? How can the average citizen affect the economy? The answers to these questions are based on the possible interpretations of the various materials we study. Students in Economics and Society will also have the opportunity to study the city of Chicago to discover the workings of the local economy and the history of economic disparity and its effects in neighborhood development and racial segregation. We will have the opportunity to attend talks and panel discussions by experts in the city, and when possible we will invite guest speakers to the classroom. This course is particularly enjoyable for students with a keen interest in furthering their knowledge of the world’s economic systems, and exploring a variety of perspectives on significant economic and social issues. While this course explores a range of topics, students are also encouraged to co-direct. Students will read from a variety of economic theorists including Adam Smith, Karl Marx, John Maynard Keynes, Milton Friedman, and modern critiques of these and other classical economists. We will use the debate format in the classroom to familiarize ourselves with the issues. Students will also do individual and group presentations, write two short papers comparing and evaluating economic theories, and research and write a paper of interest to the students on the U.S. domestic economy or the global economy.

TALK OF THE TOWN: Long-form Journalism in Contemporary American Culture  US2950
(Offered second semester) (1 SEMESTER/0.5. credit) Grades 11-12

With the increasing polarization of contemporary American society, it is incumbent upon culturally engaged individuals to hone our ability to tangle with complexity and appreciate the logic, perspectives, and wit of points of view from across the spectrum. Students in this course will use contemporary journalism to participate in national dialogues on pressing or enduring topics in American life. Every student will receive a personal subscription to The New Yorker and The National Review -- two legendary publications with widely divergent editorial perspectives, offering criticism and analysis (and cartoons!!) of emerging events and persistent trends. In addition, we will explore podcasts such as This American Life or Serial, as well as contemporary films or breakthrough articles in The Atlantic, The American Spectator, Mother Jones, Slate, The Christian Science Monitor, The Chicago Reader, and the like. Seminar sessions will experiment with a discursive style -- meaning, students are in control of the direction of a given class encounter, with no predetermined outcome. Through discussion, debate, and experimental exploration, together we will dive into what’s hot and now in politics, culture, and the arts.
INTEGRATED LEARNING AND INFORMATION SCIENCES (ILIS)

The Integrated Learning and Information Sciences Department (ILIS) department is the curricular embodiment of Parker’s TIDES (Technology Innovation Design-Thinking and Entrepreneurship for Society) program and consists of faculty members from the disciplines of computer science, library and information science, and technology. The ILIS curriculum creates opportunities for students to engage in project-based learning, utilizing tools and concepts in technology, computer science, and entrepreneurship to solve problems and create new knowledge.

COMPUTER PROGRAMMING I US0730  *Required course beginning with class of 2021*
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9–12

Students taking the course for requirement will receive priority when scheduling. This course teaches students how to use computational modes of thinking to frame and solve problems. It focuses on the creation of computer applications, emphasizing coding and modern design principles. Topics include the use of variables, decision statements, loops, functions, arrays, classes, graphics and libraries. In addition, students learn a basic set of algorithms and the process of writing and debugging a program. To accomplish these objectives, students create interactive games using the Python programming language. *Schedule: four times a week.*

COMPUTER PROGRAMMING II US0740
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 10-12
PREREQUISITE: Computer Programming I 730

This course teaches students advanced programming concepts and methods for computational problem solving. Students review the fundamental building blocks of object-oriented programming and expand their understanding to include exceptions, recursion, searching, sorting, regular expressions, inputs/outputs, graphical user interfaces and data plotting. To accomplish these objectives, students create graphical user interfaces, manipulate and evaluate large data sets, and create graphical representations of data using the Python programming language. *Schedule: four times a week.*

SOCIAL ENTREPRENEURSHIP US0700
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 10-12

This course introduces students to social entrepreneurship through case studies, key readings, authentic learning experiences in the field, and ultimately, the creation of a start-up social enterprise by students themselves. Meeting with real-life social entrepreneurs, students will become familiar with organizations and methods through service-learning projects, and will begin to develop skills demonstrated by successful social entrepreneurs, including team building and leadership and working in complex social and cultural environments. Students will also be required to learn the social role of digital communication in the advancement of both a cause and entrepreneurial goal. Students will have a series of authentic experiences in the field in which they are asked to interact with and present to working entrepreneurs in an effort to understand the realities of the field today. Finally, students will be asked to develop their own entrepreneurial endeavor, create a business plan and create and execute a pitch deck for an audience of local entrepreneurs and investors. *Schedule: four times a week.*
The goals of the Languages & Cultural Studies Department are for each student to acquire knowledge, understanding and enrichment in their language of choice. Students achieve both writing and reading skills in each language studied, and speaking ability in the modern languages. They also develop cultural competence, an appreciation of people and lifestyles that differ from their own, while simultaneously learning to see their own country’s history from a different perspective.

GRADUATION REQUIREMENTS: To meet the graduation requirement in world language, students are required to take three years of language courses on campus, two of which must be sequential years of one language. They are encouraged to take more than required. Students may study two languages simultaneously and are encouraged to seek the advice of the Department in their decision.

It should also be noted that going against teacher recommendation requires departmental permission. Please see the Parent Override section in Appendix A.

STUDIES IN LANGUAGE AND CULTURE I: FRENCH US4001
(1 YEAR/1.0 credit) Grades 9-12
PREREQUISITE: If currently enrolled in a world language class, signature of the current foreign language instructor and consent of department chair.

The Languages & Cultural Studies Department offers this course for students who may experience or who have experienced significant difficulty in second language learning. Students will learn French phonetics, pronunciation, and grammar through the use of explicit, multisensory structured language (MSL) techniques. This instructional model has proven successful with students at risk for significant struggle in the foreign language classroom due to significant native-language based learning difficulties. Students will learn about the transformation and development of language from its Latin roots and about French influences on English. Etymology and the borrowing nature of English will be explored, as students discover how to research English words and their foreign origins. Students will present current events to the class on a variety of issues pertaining to language and/or culture from around the globe. Students will enhance their knowledge of the world, cultural competence, their language study skills, and their French survival skills. Students may enroll in this course after consultation with the Upper School Dept. Chair, prior language teacher and parents.

STUDIES IN LANGUAGE AND CULTURE II: FRENCH US4002
(1 YEAR/1.0 credit) Grades 10-12
PREREQUISITE: Studies in Foreign Language and Culture I: French US4001. Consent of the Department: Signature of current language instructor. NOTE: After completion of this course, students are free to choose between Level I French, Latin, Chinese, or Spanish. Students interested in enrolling in a course other than French should schedule an appointment with their Cultures instructor before completing the form.

This course is a sequel to Studies in Language and Culture: I. Students will begin this course with a review of material covered last year. They will continue to practice the skills and techniques that are effective in learning a second language, as they learn additional French grammar and vocabulary through life-related contexts: greetings, health, travel, shopping, eating, etc. Important irregular verbs that help them expand their ability to communicate desires, obligations, and abilities will be studied: vouloir (to want), pouvoir (to be able to), and devoir (to have to). In addition to practicing speaking, students will begin to refine their writing skills to prepare them for work in a traditional French program next year. Students will research an important global theme and present to the class (the theme changes from year to year. Prior themes have included: immigration, language policy and bilingual education). The course will culminate with students moving from the present and future tenses to the past tense (passé composé). Students will enhance their knowledge of the world, cultural competence, their language study skills, and their French survival skills.
FRENCH I US4011
(1 YEAR/1.0 credit) Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

French I introduces and builds upon the four basic skills of listening, speaking, reading, and writing. The course will accommodate students who may have had prior world language experience in a language other than French and will begin with learning the code of the language—the sound/symbol connection—i.e., the link between pronunciation and writing (or spelling). This course is also appropriate for new Parker students who have never studied a world language in Middle School. Fundamental grammar concepts and authentic cultural information are introduced. Auditory comprehension and oral proficiency are enhanced by the use of video, an internet-based supersite with audio-visual exercises, a text, and a workbook. Individual student presentations provide supplemental cultural material on the contemporary French-speaking world. The student is expected to allocate forty minutes daily for homework preparation and general review. Evaluation will be based on: class participation, both spontaneous and with prepared material; daily homework preparation; pronunciation; accuracy of prepared oral work; written tests, quizzes and paragraphs.

FRENCH II US4021
(1 YEAR/1.0 credit) Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

After a thorough review of fundamental grammar introduced in French I, new grammatical concepts and vocabulary will be presented. Students will refine their pronunciation and work on their comprehension of more linguistically difficult material via online listening and speaking exercises and French media, music and film. Students will learn the distinction between the different kinds of past tenses, the imperfect and the passé composé, and will learn the other tenses including the future and the conditional. Conversational fluency is enhanced through classroom discussion on pertinent cultural topics. Students will be asked to make cultural presentations in French to the class. Evaluation will be based on: class participation, both spontaneous and with prepared material; daily homework preparation; pronunciation; accuracy of prepared oral work; written tests, quizzes and paragraphs.

FRENCH III US4031
(1 YEAR/1.0 credit) Grades 9-12
PREREQUISITE: Consent of Department: signature of current language instructor.

French III US4031 focuses on advanced grammar during semester one and on literature in semester two. Fall begins with a review of tenses and important grammatical structures learned previously. Students are then taught the subjunctive, the pluperfect, and the past conditional, along with culturally significant idiomatic expressions used in everyday French. Students learn about grammar and culture through award winning films, engaging articles and practice exercises. This course promotes active conversation as well as reflective writing. In the second semester, students are introduced to French literature through literary excerpts and read their first full text with Saint Exupéry's classic Le Petit Prince. Students will make presentations in French and will write papers in French. The course culminates with the writing of an original chapter to le Petit Prince. Active, daily classroom participation is an integral part of the student's overall evaluation.

ADVANCED FRENCH: La diversité au cinéma: Representations of Diverse Identities in French Cinema
US4080 *subject to enrollment*
(1 year/ 1.0 credit) Grades 9-12
PREREQUISITE: Completion of a prior advanced French course or teacher approval/signature.

This advanced French course will examine themes of diversity and inclusion through analyses of contemporary media, film, and literary sources. The texts and films under discussion will broaden students’ perspectives of important issues and ongoing political and social tensions in the Francophone world while inviting a more complex and multilayered understanding of la Francophonie. Students will be introduced to French film terminology and a collection of critically acclaimed, award-winning movies from different eras. Journalistic and literary readings will accompany our explorations of film themes. Students will write papers and regularly deliver presentations and personal commentary in French.
LATIN I US4100  
(1 YEAR/1.0 credit) Grades 9-12  
PREREQUISITE: Consent of Department: signature of current language instructor.

This course introduces the student to the fundamentals of Latin by focusing on the components and structure of a Latin sentence. It accommodates students who may have had prior world language experience, but it does not exclude those who are beginning their world language study. Points of grammar appear in order of priority, frequency of use, and difficulty. The primary objective is to read Latin as early as possible. Much time is spent developing a vocabulary which will prepare the student to read Classical Latin authors and which will augment the student’s English vocabulary through learning English derivatives of Latin words. Since so much English vocabulary derives from Latin, this course emphasizes word roots and similarities in the structure of the two languages.

LATIN II US4102  
(1 YEAR/1.0 credit) Grades 9-12  
PREREQUISITE: Successful completion of Latin I 4100 and signature of current language instructor.

This course completes the study of grammar including subjunctive mood, participles, and infinitives. Translating Latin into English and vice-versa, grammatical structure, and derivatives study will be the primary focus. The Millionaire's Dinner Party, an adaptation of Cena Trimalchionis by Petronius, will provide reading material.

LATIN III US4103  
(1 Year /1.0 credit) Grades 9-12  
PREREQUISITE: Successful completion of Latin II 4102 and signature of current language instructor.

Finishes general Latin syntax and introduces students to: multiple expressions of purpose, particles, the Julian calendar, treatment of large numbers and numerical ideas in Latin idioms, impersonal verbs, and substantive noun clauses. Students will begin working with Latin quotations and mottoes and read short selections from a variety of authors in prose and poetry.

ADVANCED LATIN: LATIN LITERATURE US4125  
(1 Year /1.0 credit) Grades 9-12  
PREREQUISITE: Successful completion of Latin III US4103 and signature of current language instructor.

This full year course covers an array of literary works each semester. Authors and works are selected based on students’ level of ability and interests. Typically, works from Cicero, Vergil, and Petronius are read with units supporting each genre or subject.

MANDARIN CHINESE I US4311  
(1 YEAR/1.0 credit) Grades 9-12 Preference will be given to 9th and 10th grade students who will commit to more than a year of Chinese study.  
PREREQUISITE: Consent of Department: signature of current language instructor.

Students will learn the “pinyin” system of pronunciation, including the tonal system of Mandarin, enabling them to both work out pronunciation of new vocabulary and transcribe the language to spoken words. Students will acquire over 300 words and a variety of common phrases and begin conversing in basic sentence structures. Course will also include exposure to Chinese culture, geography and social history with diversity in ethnicity, as well as the writing system of Chinese characters and methods for entering Chinese text using software programming. Evaluation will be based on: written tests and quizzes, oral presentation, projects, daily homework, class participation and effort.
MANDARIN CHINESE II  US 4321
(1 YEAR/1.0 credit) Grades 10-12
PREREQUISITE: Mandarin Chinese I and consent of instructor.

This second level course is a continuation of the introductory curriculum for beginning students of Mandarin Chinese. Students will continue learning the basic skills of listening, speaking, reading, and writing for everyday communication. Building upon the vocabulary and sentence structures taught in the first year, students will learn a wider variety of vocabulary expressions as well as more advanced grammar and syntax. A large part of the class time will be devoted to conversations related to topics in daily life. While the emphasis will be on the communicative skills of listening and speaking, students will also continue to learn to read and write Chinese characters, and write short essays in Chinese characters. To facilitate the study of the language and understanding of Chinese culture, different aspects of Chinese society will be introduced through activities such as film viewing and field trips. Evaluation will be based on: written tests and quizzes, oral presentation, projects, daily homework, class participation and effort.

MANDARIN CHINESE III  US4331
(1 YEAR/1.0 credit) Grades 10-12
PREREQUISITE: Mandarin Chinese II and consent of instructor.

Mandarin III is designed for students interested in a continuation of Mandarin II, with a review of grammar and a further development of reading and writing skills in Mandarin. In this course, students will solidify and further their communicative ability. Reading and discussion of authentic writings on cultural topics, newspaper reports, radio and TV broadcasts and films will be conducted. Some online Chinese software and e-mail network will also be used to facilitate the study. The course requires a basic knowledge of Chinese pinyin, words, sentences, and grammar. Emphasis will be placed upon practical use of Mandarin, so that the students can gain experience from the world of communication among the Chinese. Evaluation will be based on: written tests and quizzes, oral presentation, projects, daily homework, class participation and effort.

ADVANCED MANDARIN CHINESE: GRAMMAR AND MECHANICS US4345
(1 YEAR/1.0 credit) Grades 10-12
PREREQUISITE: Mandarin Chinese III and consent of instructor.

Building upon the communicative ability acquired in Mandarin III, this course exposes the students to more advanced vocabulary and sentence structures. Beginning with a review of grammar and syntax, reading material from authentic sources will be employed to illustrate the techniques of prose writing. Differentiation in colloquial and formal expressions will be emphasized by contrasting their functionality and style of presentation. Reinforcement of skills in language usage are implemented through practical usage and reading of passages by renowned writers. Evaluation will be based on: written tests and quizzes, oral presentation, projects, daily homework, class participation and effort.

INTRODUCTION TO SPANISH  US4281  *subject to enrollment
(1 YEAR/1.0 credit) Grades 9-12
PREREQUISITE: Upper School students must get the signature of their current language instructor to enroll.

This course introduces and builds upon the four basic skills of listening, speaking, reading, and writing. It is designed for students with no prior knowledge of Spanish and begins with an introduction to the sound system of the language. Survival phrases, relevant vocabulary, fundamental grammar concepts and authentic cultural information are introduced. Auditory comprehension and oral proficiency are enhanced by the use of video, an internet-based supersite with audio-visual exercises, a text, and a workbook. Individual student presentations provide supplemental cultural material on the contemporary Spanish-speaking world. Students are expected to devote appropriate time to homework preparation and general review daily. Evaluation is based on class participation (spontaneous and prepared), homework preparation, pronunciation and accuracy of prepared oral and written work, and tests/quizzes. Upon successful completion of this course, students will be prepared for Spanish II.
FUNDAMENTALS OF SPANISH  US4265
(1 YEAR/1.0 credit)  Grades 9-12
PREREQUISITE: Upper School students must get the signature of their current language instructor to enroll.

This course is designed for students who have had one or more years of prior Spanish instruction but are not yet ready for the academic challenges of Spanish II. Fundamentals of Spanish builds on prior knowledge of pronunciation and the basic structure of the language, reinforcing the connection between accurate pronunciation and the written code. This course develops the student’s ability to carry on simple conversations through directed questions on contemporary topics. The basic text, workbook, and companion website include grammar, conversational and listening exercises. Cultural materials are supplemented by instructor and student reports. Audio-visual aids and drama activities stimulate conversation and interest in the Spanish language. Students are expected to devote appropriate time to homework preparation and general review daily. Evaluation is based on class participation (spontaneous and prepared), homework preparation, pronunciation and accuracy of prepared oral and written work, and tests/quizzes. Upon successful completion of this course, students will be prepared for Spanish II.

SPANISH II  US4221
(1 YEAR/1.0 credit)  Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

Continuing with the text Vistas, the course presents new grammar concepts with an equal emphasis on all language skills: listening, speaking, reading, and writing. Encouraging verbal communication, the course includes individual presentations, class discussions, and original student-created dialogues. Cultural materials are supplemented by the instructors and through student work, which are presented in the Spanish language. Evaluation is based on: class participation, both spontaneous and with prepared material; daily homework preparation; pronunciation; accuracy of prepared oral work; written tests, quizzes and paragraphs.

SPANISH III  US4231
(1 YEAR/1.0 credit)  Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

This course provides a thorough grammar review and completes the study of basic Spanish grammar with the study of the subjunctive. Emphasis is evenly divided among the development of oral, aural, reading and writing skills. Periodicals, short stories, music, poetry, film and the arts are used as points of departure for discussion. Active daily classroom participation is an integral part of the student’s overall evaluation.

ADVANCED SPANISH: LITERATURE AND SPANISH CIVILIZATION  US4250
(1 YEAR/1.0 credit)  Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

Spanish IV: Advanced Spanish- Literature and Spanish Civilization is a fourth-year course that focuses on the analysis of narratives (especially short stories) from the Hispanic world (Latin America, Spain, and the Latino United States) and on key issues in Spanish civilization through cultural expressions such as history, visual art and film. It places emphasis on developing advanced proficiency in the four basic skills: speaking, reading, listening comprehension and writing. Grammar and advanced vocabulary are used in oral and written activities that require active student participation and engagement. Over the course of the year, students will explore and deepen their knowledge of a wide range of cultural topics about the Hispanic world.

ADVANCED SPANISH: LATIN AMERICAN LITERATURE AND CIVILIZATION  US4255
(1 YEAR/1.0 credit)  Grades 9-12
PREREQUISITE: Consent of Department: signature of the current language instructor.

This course introduces students to Latin American literature, film and visual art in its geographic and socio-historical context, from the chronicles of the Conquest to representations of contemporary life in Latin America’s megalopolises. Students will read poetry, testimonials, short stories, novels and plays by major Latin American authors, and will consider Latin American and Latino cultural production in light of armed conflict,
migration, gender roles, class struggle, popular culture and social upheaval. Students will strengthen their language skills through discussion, close readings of the texts, analytic essays, presentations, creative writing and performance.

**NOT OFFERED 2019-2020**

**ADVANCED FRENCH: FRENCH CULTURAL AND LITERARY TRENDS THROUGH THE AGES**

US4061  *subject to enrollment*

(Not Offered 2019-2020) (1 YEAR/1.0 credit) Grades 9-12

PREREQUISITE: Consent of Department: signature of the current language instructor.

This course is designed for students who have significant linguistic talent and the intellectual interest in pursuing a study of French culture and literature. It concentrates on the major artistic, cultural, historical, and literary developments throughout the centuries, incorporating historical and contemporary film, field trips to local art museums, and, of course, a sampling of French culinary delights representing France’s contribution to artful cuisine throughout the ages. Students will read excerpts from the earliest French writings to those of the 20th century. Emphasis will be on genre study including: Middles Ages epic poetry, political satire of Molière, fables of La Fontaine, and the writing of renowned authors such as Montaigne, Voltaire, and Baudelaire. The course will culminate with excerpts from works of 20th century French authors such as Sartre, Beckett and Ionesco. Students will collaborate on several research projects throughout the year. Oral engagement in classroom discussion is an integral part of the student’s overall evaluation.

**ADVANCED FRENCH: FROM MONTAIGNE TO MARIAMA Bâ**  US4075  *subject to enrollment*

(Not Offered 2019-2020) (1 YEAR/1.0 credit) Grades 9-12

PREREQUISITE: Completion of a prior advanced French course or teacher approval.

This advanced literature course is designed with two distinct areas of focus. Students will explore the work of Michel Eyquem de Montaigne, the 16th century father of the modern essay. The idea of “writing about oneself to create a mirror in which other people recognize their own humanity” (Sarah Blakewell, 2010) was a progressive notion as was his philosophy of education. Students will compare the progressive educational philosophies of Montaigne in his work, Les Essais, and Colonel Francis W. Parker’s Talks on Pedagogics. Oral engagement in classroom discussion is an integral part of the student’s overall evaluation. Students will write papers and regularly deliver presentation in French.
MATHEMATICS

The faculty of the Mathematics Department aims to foster in students an appreciation of the power, beauty, and utility of mathematics and develop students into thoughtful problem solvers with the understanding and skills needed to do mathematics.

GRADUATION REQUIREMENTS: To meet the graduation requirement in mathematics, students must complete three years of courses. Individual course descriptions list prerequisites and course sequences. Students in grades 11 and 12 may enroll in more than one course provided they meet the prerequisites of each.

All students entering the Upper School will take a placement exam in the spring prior to their Freshman year. The placement exam is one of many factors that is considered when recommending students. Students entering 9th grade will be recommended for Applied Algebra US5020, Algebra II US5010 or Advanced Algebra II US5030. Students should carefully consider the recommendation of the mathematics committee responsible for recommendations. It should be noted that going against recommendation requires departmental permission. Please see the Course Override section in Appendix A.

Subject to Revision, the course sequence is given in Appendix B:

APPLIED ALGEBRA US5020
(1 YEAR/1.0 credits) Grade 9

This course will explore first-year Algebra topics through both applied and algorithmic problems as well as the study of fundamental mathematical questions. An emphasis of an applied course is the connections between mathematics and its real-world applications. This class is appropriate for students who have not previously studied or need to strengthen their understanding of the introductory ideas of algebra: positive and negative numbers, use of variables, expressions, and equations. After completing this course, most students will take Applied Geometry.

ALGEBRA II US5010
(1 YEAR/1.0 credit) Grade 9
Prerequisite: Successful completion of 8th grade Algebra 1 or Algebra 1+ or comparable class for new students and recommendation for the course.

This course covers the standard topics of Algebra II. It is designed for students who already have mastered Algebra 1 and are ready to deepen their algebraic understanding and reasoning. This course is appropriate for rising freshman students currently enrolled in either 8th grade Algebra 1 or Algebra 1+ or for new to parker students enrolled in an Algebra 1 course at their school. After completing this course, most students will take Geometry (formerly known as Geometry+).

ADVANCED ALGEBRA II US5030
(1 YEAR/1.0 credit) Grade 9
Prerequisite: Successful completion of 8th grade Algebra 1+ or comparable class for new students and recommendation for the course.

This is an accelerated course covering the standard topics of Algebra II. The course is appropriate for students who are ready to understand and apply more advanced concepts. Students in this course can expect to be challenged with questions that put an emphasis on understanding, creativity, and multiple methods. This course is appropriate for rising freshman students currently enrolled and earning a solid A in 8th grade Algebra 1+ or for new to parker students taking an accelerated Algebra 1 course at their school. After completing this course, most students will take Advanced Geometry (formerly known as Geo/Trig).
APPLIED GEOMETRY US5231
(1 YEAR/1.0 credit) Grade 10
PREREQUISITES: Completion of Applied Algebra I US5020 or Algebra II US5010 and the signature of current mathematics instructor

Students in this class study the fundamental concepts and theorems of Euclidean geometry, with a particular concurrent focus on reinforcing and enhancing key algebra skills. This course is for students who would benefit from further development of their algebraic fundamentals to be most successful when studying Algebra II and Trigonometry. Major themes are congruence and similarity, parallel lines, polygons, circles, and measurement in two and three dimensions. Proof, explanation, and articulating mathematical arguments are essential aspects of the course. Students write proofs and solve problems that involve finding lengths, areas, volumes and angle measurements. Throughout the year, significant emphasis will be placed on greater mastery of algebraic concepts. This class is formerly known as Geometry. After completing this course, most students will take Applied Algebra II.

GEOMETRY US5211
(1 YEAR/1.0 credit) Grade 10
PREREQUISITES: Successful completion of Algebra II 5010 and the signature of current mathematics instructor

Students in this class study the fundamental concepts and theorems of Euclidean geometry. Major themes are the ideas of congruence and similarity, with particular application to triangles; parallel lines; angle relationships in triangles and polygons; the circle; and relationships involving lengths, areas, and volumes. Proof, explanation, and establishment of logical connections are essential aspects of the course; writing correct and concise deductive proofs receives major emphasis. Algebraic Geometry is integrated throughout the course, and a solid foundation in Algebra is assumed. After completing this course, most students will take Precalculus.

ADVANCED GEOMETRY US5251
(1 YEAR/1.0 credit) Grade 10
PREREQUISITES: Successful completion of Advanced Algebra II 5030 and the signature of current mathematics instructor

This is an accelerated course appropriate for students who have a strong background and interest in mathematics, who are ready to think abstractly and understand/apply more advanced concepts. Students will study Euclidean, Analytic and Spherical Geometry. Students will also begin their of Trigonometry. After completing this course, most students will take Advanced Precalculus.

APPLIED ALGEBRA II US5040
(1 YEAR/1.0 credits) Grade 11

This course will explore second-year Algebra topics through both applied and algorithmic problems as well as the study of fundamental mathematical questions. An emphasis of an applied course is the connections between mathematics and its real-world applications. This class is suitable for students who need to strengthen their understanding of Algebra I in addition to learning Algebra II concepts. After completing this course, most students will take Applied Topics: Statistics 5355 and/or Applied Topics: Problem Solving 5340.

PRECALCULUS US5460
(1 YEAR/1.0 credit) Grades 11
PREREQUISITES: Successful completion of Algebra II 5010 and Geometry 5211 and the signature of current mathematics instructor.

This course is intended to meet the needs of 11th graders who are interested in eventually studying Calculus. This course will include an in-depth study of trigonometry that builds on the student’s foundation of plane geometry and right triangle trig. Topics covered include polynomial functions, rational functions, exponential and logarithmic functions, conic sections, trigonometric functions, trigonometric identities, polar coordinates, etc. This class may be taken concurrently with another math class.
ADVANCED PRECALCULUS US5465
(1 YEAR/1.0 credit) Grade 11
PREREQUISITES: Completion of both Advanced Algebra II US5160, Advanced Geometry US5251 and signature of current mathematics teacher. The abilities to manipulate algebraic expressions with ease and to follow the steps of a complicated proof are essential.

This course emphasizes the development of non-routine problem solving skills and the strengthening of connections between different math topics. It builds on much of the conceptual foundation of functions established in Advanced Algebra II. Beyond the topics covered in Precalculus 5460, students in this course will also study parametric equations, sequences and series, the complex number system, polar coordinates, vectors and matrices, and some combinatorics and probability. This course meets the needs of students who intend to take a calculus course the following year. This class may be taken concurrently with another math class.

PRECALCULUS US5464
(1 YEAR/1.0 credit) Grades 12
PREREQUISITES: Successful completion of Algebra II & Trigonometry 5341 and the signature of current mathematics instructor.

This course is intended to meet the needs of 12th graders who are interested in eventually studying Calculus. Students will do a lot of problem solving and emphasis will be placed on proofs and deepening student understanding of topics learned in previous math courses. Topics covered include polynomial functions, rational functions, exponential and logarithmic functions, conic sections, trigonometric functions, trigonometric identities, polar coordinates, etc. This class may be taken concurrently with another math class.

CONCEPTUAL CALCULUS US5480
(1 YEAR/1.0 credit) Grade 12
PREREQUISITES: Successful completion of Precalculus US5460 or Advanced Precalculus US5465 and signature of current mathematics instructor.

The goal of this class is for students to understand the concepts of calculus as meaningful ideas, not as the manipulation of symbols. Two big ideas in calculus - the derivative and the integral - both relate to our everyday experience of motion. This course will explore the variations and applications of the two fundamental ideas of calculus by developing these concepts from different points of view that may include economics, architecture, baseball, and music. It will provide specific tools that solve practical problems as well as develop an intellectual perspective on how we analyze the world by shifting the emphasis from problem solving to understanding the concepts. This class may be taken concurrently with another math class.

CALCULUS US5470
(1 YEAR/1.0 credit) Grade 12
PREREQUISITE: Successful completion of Precalculus US5460 or Advanced Precalculus US5465 and signature of current mathematics instructor.

This course will continue the study of limits begun in Advanced Precalculus US5465 and develop a full treatment of differential and integral Calculus. Rules for calculating limits and derivatives will be covered extensively, with an additional focus on implicit differentiation, related rates of change and optimization problems. Integration will be treated as both the inverse of differentiation and as a process for solving for the area under a curve, with extensions to volumes and surfaces. Techniques of integration, including numerical approximation methods for definite integrals, will be emphasized. A graphing calculator is an essential tool and will be used throughout the course. Students in this course are strongly encouraged to take the Advanced Placement Calculus AB examination in May. This class may be taken concurrently with another math class.
ADVANCED CALCULUS US5485
(1 YEAR/1.0 credit) Grade 12
PREREQUISITE: Completion of Advanced Precalculus US5465 with a solid A and signature of current mathematics instructor.

This course will continue the study of limits begun in Advanced Precalculus US5465 and develop a full treatment of differential and integral Calculus. This course is designed to be challenging and moves at an exceptionally fast pace, as it covers the same material as Calculus US5470 but includes additional topics. These topics include: polar and parametric integration, arc length, and series approximations. Students in this course are strongly encouraged to take the Advanced Placement Calculus BC examination in May. This class may be taken concurrently with another math class.

STATISTICS US5360
(1 YEAR/1.0 credit) Grades 11-12
PREREQUISITES: Successful completion of an Algebra II class and signature of current mathematics instructor.

This course is an introduction to statistics comparable to a one-semester college course. Its objective is to foster the intelligent use and interpretation of data. Students study both descriptive statistics (how to talk about data) and inferential statistics (how to make predictions from data). Topics include 1-variable data and the normal distribution, 2-variable data and linear regression, random processes and probability distributions, confidence intervals, and hypothesis testing. In addition, students learn methods of experimental design, including observational techniques, sampling, bias, reliability and validity. Spreadsheets are used as a tool for simulation and working with large data sets. Students complete some projects throughout the year, incorporating statistical methods and techniques, gathering data, making predictions and drawing conclusions. This class may be taken concurrently with another math class.

APPLIED TOPICS: STATISTICS US5355
(Offered first semester/0.5 credit) Grades 11-12
PREREQUISITE: Signature of current mathematics instructor.

This course is a conceptual and verbal approach to the study of statistics. Its focus will be on This course is an introduction to the collection, organization, analysis, and interpretation of data. Topics covered include 1-variable data and the normal distribution, 2-variable data and linear regression, randomness and probability, experimental design, and an introduction to hypothesis testing. Heavy emphasis is placed on conceptual understanding and reasoning. While mathematical formulas and algebraic thinking are necessary to the discipline, calculators and spreadsheets are frequently utilized as tools for computation, simulation, and working with large data sets. Students complete some projects throughout the semester, incorporating statistical methods and techniques, gathering data, making predictions and drawing conclusions. This class may be taken concurrently with another math class.

APPLIED TOPICS: PROBLEM SOLVING US5340
(Offered second semester/0.5 credit) Grades 11 - 12
PREREQUISITES: Signature of current mathematics instructor.

This course allows students to explore a wide variety of mathematical topics through the lens of open-ended, non-routine problem solving. Heavy emphasis is placed on the creative aspects of doing mathematics, such as question-posing, experimentation, and pattern recognition. Course content will be approached in a collaborative atmosphere, as students will develop not only a variety of problem-solving strategies, but also effective interpersonal communication skills. Content may vary according to student interest, but will likely include topics from discrete math, including modular arithmetic, sequences, alternative number systems, combinatorics, voting theory, graph theory, number theory, and game theory. Students will engage in independent explorations on topics or problems of their choice as a way to extend course content and practice their creative thinking skills. This class may be taken concurrently with another math class.
**ADVANCED TOPICS I US5345**  
(Offered first semester/0.5 credit) Grades 11 - 12  
PREREQUISITES: Successful completion of an Algebra II class and signature of current mathematics instructor.

This course is intended for students with a strong interest in mathematics. Some of the many topics covered include: Number Theory, Theory of Equations, Matrices, Topology, Platonic Solids, and Knot Theory. Students who take this course are highly encouraged to continue with Advanced Topics 2, as connections will be made between the courses wherever possible. *This class may be taken concurrently with another math class.*

**ADVANCED TOPICS II US5350**  
(Offered second semester/0.5 credit) Grades 11 - 12  
PREREQUISITES: Successful completion of an Algebra II class and signature of current mathematics instructor.

Students who have a strong interest in mathematics and who did not take Advanced Topics 1 can still take this course. Some of the many topics covered include: Partial and Continued Fractions, The Fibonacci Number Sequence and the Golden Ratio, Infinite Polynomials, and Geometric Constructions. *This class may be taken concurrently with another math class.*
PERFORMING ARTS

The Performing Arts are a means of expressing the human condition. Our aim is to provide students with the creative structure necessary to better realize and communicate their intellectual and emotional understanding of the world.

GRADUATION REQUIREMENTS: A total of 2.0 credits selected from among the performing (drama, dance and/or music) and the visual arts are required.

DANCE

INTRODUCTION TO DANCE AND MOVEMENT STUDIES  US6600
(1 YEAR/0.5 credit) Grades 9-12
NOTE: Enrollment in this course is not compatible with concurrent enrollment in Special Chorus, Leadership and Community, Introduction to Stagecraft, Stagecraft, or Yearbook Production.

The primarily goal of the class is to deepen the individual appreciation for movement as well as knowledge for dance by immersing the student in a world were athleticism and artistic vision meet. The student will develop their kinesthetic sense through the implementation of classic dance techniques and the investigation of movement. This learning will occur by utilizing improvisation tools as well as the introduction to choreographic processes. The examination of vocabulary, history and new tendencies in dance, are vital to achieve the goal of this program. Introduction to Dance and Movement Studies will be offered in G-2 and G-3 periods on Tuesdays and Thursdays. Students will be exempt from PE while enrolled in this course but are required to attend classes during the sports season.

ADVANCED DANCE AND MOVEMENT STUDIES  US6640
(1 YEAR/0.5 credit) Grades 9-12
PREREQUISITE: Completion of Introduction to Dance and Movement Studies US6600 or by audition.

The primarily goal of this course is to deepen the individual appreciation for movement as well as knowledge for dance by immersing the student in a world were athleticism and artistic vision meet. The student will develop their kinesthetic sense through the implementation of classic dance techniques and the investigation of movement. This learning will occur by developing their technique, utilizing improvisation tools and investigating the choreographic processes. The examination of vocabulary, history and new tendencies in dance, are vital to achieve the goal of this course. This class deepens the connection between movement and social content.

Objectives: The objective of the course is to create a training stage for the student with the intention of advancing their technical vocabulary, choreographic skills and artistic voice. The course also intends to progressively deliver new skills and knowledge that will allow the student to design and build on their previous experience. This course should be an ever changing environment that exercises the philosophy:

Be Curious- Consistently investigate how movement is performed and articulated
Retain- Retain information from all aspects of the student training including and not limited to: all dance techniques, academic courses and life experience.
Start Anew- Every plié (for instance) will be different every time it is performed. We hold the expectation that in every class, rehearsal and performance the student will work to their best effort and work with a positive point of view.
MUSIC

Music plays a dynamic and pervasive role in the lives of our students. Although all upper school music courses are elective, roughly half of our students participate in some kind of school-sponsored musical activity during the year. Music enriches the affective and aesthetic dimensions of a young person's growth, thereby strongly contributing to the formation of "the whole child." Musical activity is one of the most successful and conspicuous ways through which students experience two fundamental principles of Parker education: community involvement and learning by doing. The department offers both performance and classroom-based courses.

GRADUATION REQUIREMENTS: A total of 2.0 credits selected from among the performing (drama, dance and/or music) and the visual arts are required.

PERFORMANCE COURSES

NEW CHORALE US8010
(1 YEAR/0.5 credit) Grade 9-12

New Chorale is a fundamental choral experience for beginning singers in Parker’s Upper School Choir program. 9th graders, and 10th graders who are new to choir altogether, will be introduced to the long-standing musical traditions of the Parker community while learning the basics of vocal production, choral singing, music reading, and creative expression. Students will discover these concepts through the study of a variety of choral repertoire. As this class is performance-based, students will have the opportunity to perform this repertoire at two concerts and multiple Morning Exercises throughout the year. On some occasions, New Chorale will combine with Concert Choir for special performances such as Commencement. These performances are mandatory in order to earn credit for this class.

Schedule: Rehearsals held two times a week based on student schedules during H3, H4 and/or H5.

CONCERT CHOIR US8115
(1 YEAR/0.75 credit) Grades 10-12
PREREQUISITE: one year of New Chorale 8010 and/or consent of the department.
NOTES: Concert Choir can fulfill a maximum of 1.0 of the 2.0 art credit requirements; enrollment in this course is not compatible with concurrent enrollment in Stagecraft or Introduction to Dance and Movement Studies.

Concert Choir (formerly “Special Chorus”) is an accelerated choral experience for singers in Parker’s Upper School Choir program. Students are familiar with the Parker Choir values and expectations and will expand on the concepts and technique introduced during their New Chorale experience. This group will study a variety of diverse choral repertoire that offers increased harmonic challenges as well as opportunity for deep thematic, historical, and cultural discussion. Students will participate greatly in the planning process for our multiple concerts and performances throughout the year. Attendance at concerts, Morning Exercise performances, and festivals is mandatory in order to earn credit for this class. Concert Choir may be taken for all three years in grades 10-12.

Schedule: Rehearsals held three times a week (G-1, G-2, G-4).

ADVANCED CHORAL ENSEMBLE US8120
(1 YEAR/0.75 credit) Grades 9-12
PREREQUISITE: Audition and concurrent participation in Concert Choir (10-12) or New Chorale (9).

Grape Jam is an advanced elective choral experience for singers in Parker’s Upper School Choir program. Students must participate in either New Chorale or Concert Choir concurrently with Grape Jam. This course is for qualified students who have mastered basic vocal and choral skills, who desire more challenging aspects of small-group performing, and have attained the necessary level of musicianship. Because this ensemble is designed to be an intimate experience for about 24 advanced singers, students must audition. Auditions for 8-11th graders will be held the spring prior to the following school year in order to allow students to adjust their
schedules. Students in Grape Jam will learn and rehearse music at a fast pace, preparing for multiple performances throughout the year including County Fair, Open House, Morning Exercises, concerts, workshops, community events, and festivals. Grape Jam may be taken for all four years in grades 9-12.

NOTE: Although choral music may be taken each year, it can only fulfill a maximum of 1.0 credits toward the 2.0 art credit requirement.

**STRING ORCHESTRA US8600**
(1 YEAR/0.25 credit) Grades 9-12
PREREQUISITE: Audition.

Students in 9th through 12th grades who have achieved the requisite proficiency on their instruments (violin, viola, cello, bass) can participate in the *String Orchestra*, which meets once a week. Repertoire is chosen from the vast library of string orchestra music. The programmed music is taken from all eras of music ranging from classical to contemporary. Performance opportunities can include Morning Exercises, Vespers, the final Spring Concert and more. Basic music theory instruction and music history instruction related to the scheduled music is included in this class. **Schedule: once a week (G-4)**

**CONCERT BAND US8100**
(1 YEAR/0.50 credit) Grades 9-12

*Concert Band* is for Upper School instrumental musicians, with requisite musical proficiency, looking to continue as an instrumental musician. Through the study and performance of classic and contemporary repertoire, students hone their skills across a wide spectrum of musical genres and performance experiences. In each rehearsal, students experience the fundamentals of good musicianship, practice, ensemble playing, and solo performance. *Concert Band* takes full advantage of the musical opportunities and resources available within the community, including private instruction, scholastic performances, concert outings, and recording opportunities. **Schedule: two times weekly and a sectional once a month.**

**ADVANCED WIND ENSEMBLE US8000**
(1 YEAR/0.50 credit) Grades 9-12
PREREQUISITE: Audition required and enrollment in Concert Band.

Advanced Wind Ensemble is a course for experienced instrumental students who desire an advanced musical performance and rehearsal setting. This course is open to musicians who demonstrate applicable instrumental technique, ample sight-reading ability, and musical independence.

Students in this class will learn, study, and perform a vast variety of instrumental music, from classic Bach to modern rock. In the wind-ensemble format, students will often be the only musician on their individual musical part. Enrollment in Concert Band is a prerequisite for Advanced Wind Ensemble, and acceptance into this course is by audition only.

**Schedule: two times weekly based on student schedules.**

**JAZZ BAND US8620**
(1 YEAR/0.25 credit) Grades 9-12
PREREQUISITE: Audition and concurrent participation in Concert Band for wind players.

Students who are interested in jazz music and performance and who have the requisite skills on an appropriate instrument are encouraged to join *Jazz Band*. The course offers opportunities to explore a variety of jazz/pop styles in different instrumental combinations and emphasizes ensemble values and music reading skills. The group performs at Morning Exercises, off-campus concerts, and a culminating Spring Jazz concert. The band also regularly records in Parker's studio. Acceptance into this course is by audition only. **Schedule: once a week (G-2).**
NON-PERFORMANCE COURSES

KEYBOARD/PIANO SKILLS US8450 *subject to enrollment*
(Offered second semester) (1 SEMESTER/0.5 credit) Grade 9 - 12

Learn to play the piano! This is a beginner's piano class that combines traditional and contemporary teaching methods. Students learn to read piano music through scales, melodies, and harmony. Once the keyboard system is familiar, students can choose to develop their piano reading skills and/or advance to playing by ear, writing songs, and using MIDI multi-track software.

FUNDAMENTALS OF MUSIC THEORY US8520 *subject to enrollment*
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 10-12

This course introduces students to the basic mechanics of music. This is accomplished through practice in hearing, reading, and writing of the intervals, scales, and triads, which form the fundamental vocabulary of musical composition. The classes alternate between group activities and individualized student work. This course is a valuable opportunity to advance musical understanding and also serves as an excellent introduction to further music study.

RECORDING STUDIO LABORATORY US8420 *subject to enrollment*
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 10-12

Utilizing Parker's new state-of-the-art recording equipment, this lab will give students a hands-on experience. The students will explore the fundamentals of audio and then apply them directly to recording and mixing various styles of live and recorded music. Each student will have the opportunity to participate as engineer, producer, and performer. The only course requirements are basic computer skills and a love of music.

CREATIVE SONGWRITING SEMINAR US8535 *subject to enrollment*
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12

This course is designed for students who are performers interested in creating their own vocal, instrumental or electronic music projects. Through the survey and practice of contemporary music, students enhance their skills in performance, practical music theory, and songwriting. The class is held in the school's MIDI/Recording Studio where students will also learn audio and digital recording techniques on multi-track computer music software and a 32-channel digital mixer. One digital CD recorded by the student serves as a portfolio of the student's work over the semester.

VOCAL STUDIO CLASS US8430
(Offered both semesters)(1 SEMESTER/0.5 credit) Grades 9-12

Vocal Studio Class is a course designed for singers looking for individual growth in vocal production and performing. Students will prepare individual songs to perform in front of their small class. They will receive feedback and advice in a masterclass-style setting. The teacher will work with students on their technique, tone quality, connection to the lyrics, and expression. Throughout the semester, students will have the opportunity to perform music from a variety of genres. They will grow as singers and performers by performing and acting as an audience member for their peers, both receiving and providing valuable feedback.
**TELEVISION & THEATER ARTS**

**SPEECH I: VOICE, PRESENCE, & PRESENTATION US6100**
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9-12

*Speech I and Speech II US6110 are designed to assist the speaker in developing confidence, articulation, eloquence even humor when delivering presentations before an audience. Whether it be in the classroom, MX or college interviews, speaking before an audience, despite the venue, is the skill that requires development to build capacity and success. During the first month of the course, classes will be held in the Auditorium. Students learn how to deliver speeches from behind the podium equipped with a microphone and stage lighting. Later, as the class progresses, presentations are delivered using the mechanisms of auditorium projectors, screen(s), body microphones, and other technical devices.

In the middle of the semester we transition into the TV Studio where students learn how to read from a teleprompter, and rotate through the various TV Studio technical elements such as, director, sound engineer, camera operator, lighting designer and floor manager. Students will film interviews with faculty, staff or other community luminaries. Our final production is a demonstration show entitled: "How to do Stuff" where students determine what product in the TV Studio- the viewing audience will endeavor to attempt at home.

**ACTING US6000**
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9-12

Students will work with television studio equipment filming scene work, monologues and audition tapes to build on-camera acting skills. Additionally, lyrical hip hop and slam poetry techniques are workshoped with basic urban movement combinations. Work on building character analysis, scene preparation and performance, and stage direction technique. Headshots session with a Chicago professional photographer are offered complete with hair and make-up technique. Guest artists, agents, casting directors and local artistic directors will be invited to speak to class ensemble.

**TELEVISION ARTS I: MUSIC, DANCE VIDEO, & SPORTS PRODUCTION US6030**
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9-12

An introductory class in the art of television production with an emphasis on basic, practical, hands-on activities. Students will create a webisode series like: Improv Everywhere. The course will cover: camera operation, audio/sound, studio lighting, graphics, video transitions and use of control room technology. Students rotate through the study and operation of a series of television studio production equipment as well as form the "talent pool" used for live-to-tape class projects, productions and videos. Great opportunity for television media, communications and indie film makers. Green screen, chromo key, compositing, and drone are newer elements. *Television Arts I 6030* may be elected again as *Television Arts II 6040*.

**IMPROVISATION I US6215**
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9-12

*Improvisation I* is a class where students will learn basic improvisation techniques: agreement, yes and, surrender, rant that are the foundation for improvisation. Trust exercises, and group games and simple improvisational games are used in the early stages to develop an ensemble. As the semester progresses the games and exercise build upon the foundation so that the variations of certain exercises are added. Sketch comedy is introduced during the latter part of the semester where the group is introduced formats of creating original sketch.

*Improvisation I* may be selected again as *Improvisation II US6220* Advanced Exercises, games and sketches are developed and projects created working off suggestions from audiences, world events, current news or miscellaneous words to create different venues of sketch comedy seen on *SNL*, *Comedy Central* on shows like "Key and Peele," "The Daily Show", Funny or Die shows like, “Between Two Ferns with Zach Galifianakis”
INTRODUCTION TO STAGECRAFT: THEATER ARTS AND DESIGN US6412
(1 YEAR/1.0 credit) Grade 9
NOTE: Enrollment in this course is not compatible with concurrent enrollment in Introduction to Dance & Movement. This class serves as the designers and crew for Upper School fall play and spring musical. **Substantial afterschool commitment is required during production and will conflict with other afterschool activities.**

Theatre is called the “collaborative art,” and that is how we will approach this class. Discovering what makes a theatrical production “tick” and what it takes to be a part of that creative process; students will discuss- and get hands on training in – all aspects of theatrical design and production. Students will gain from this class a respect for and understanding of the inner workings of the theatre.

STAGECRAFT: THEATER ARTS AND DESIGN US6424 – first semester; US6425 – second semester
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 10-12

NOTE: Theater Arts and Design may be taken first semester, second semester, or both semesters. Enrollment in this course is not compatible with concurrent enrollment in Special Chorus, Yearbook Production, or Introduction to Dance & Movement. This class serves as the designers and crew for Upper School fall play and spring musical. **Substantial afterschool commitment is required during production and will conflict with other afterschool activities.**

This class builds on the foundation that was laid in the introductory class by extending what the students have learned and applying it to the fun, creative, learning environment that is the theatre. Students will take on responsibilities in Francis Parker productions including, set & prop design, lighting & sound design, stage management and running crew responsibilities.
The Upper School Physical Education program is an integral part of the Francis W. Parker School’s curriculum. Consistent with the mission of the school, the department’s primary objective is to help promote the development of character and citizenship in each student. Specifically, the Physical Education Department provides instruction and activities that help students develop the knowledge, motivation and insights needed to maintain optimal physical fitness levels throughout their lives. In addition to providing comprehensive units in physical fitness for each grade in the upper school, individual, dual, and team sports classes are also conducted throughout the school year.

The program offered will incorporate a renewed emphasis on individual physical fitness. Self-assessment, individual goal setting and general conditioning activities will be included in each course. Students will be tested at the beginning and end of the year to note their physical fitness development. All sections meet two times per week. All students are required to take Physical Education each semester unless enrolled in one of the 2 dance classes (Introduction or Advanced Dance & Movement Studies) offered.

NOTE: Mid-day classes may follow a different format.

Eleventh and twelfth grade students who are interested in pursuing an independent study project in lieu of attending regular Physical Education classes must consult with the P.E. Department Chair prior to submitting an application to the Head of the Upper School and meet all deadline requirements for registration.

**PARTICIPATION AND ATTENDANCE**

1. Eight successful semesters of physical education are required for graduation.
2. Students will be required to wear a uniform during class. A Parker uniform can be purchased through the Parker School Sportswear Catalog. A combination of navy blue and grey shirt and shorts without any adornments is the only acceptable alternative uniform.
3. Students who are medically excused from participating in Physical Education must have a written doctor’s statement on file with the Department Chair that states the nature of the condition and duration of the excuse.
4. Upper School students who participate on interscholastic sports teams are excused from attending P. E. during the official season. If a student stops participating as a team member, he/she must immediately report to his/her Physical Education class. Failure to do so will result in unexcused absences being recorded.

**BASKETBALL US9501**
(Offered first semester) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their dribbling, passing and shooting abilities. Students will also learn and execute offensive and defensive strategies during drills and game situations. Games and mini tournaments will be incorporated in the curriculum.

**BADMINTON US9503**
(Offered first semester) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their forehands, backhands, serves and more. Students will also play in singles and doubles tournaments. Basic court strategy will be incorporated in each class.

**SURVEY OF TEAM SPORTS US9506**
(Offered both semesters) (1 SEMESTER/0.25 credit) Grades 9-12

This class provides the opportunity for students to participate in a variety of team sports throughout the semester. Individual units will be discussed and identified at the beginning of the term. Requisite skills and strategies will be reviewed prior to the start of each individual unit. For example, units on football, floor hockey, soccer, team handball and ultimate frisbee will be included as possible choices. Students will decide what units will be covered during the semester.
INTERVAL TRAINING **US9610**  
(Offered both semesters) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their strength, flexibility and endurance through daily workouts. A minimum of 20 minutes of cardiovascular exercise will be required. Students will follow an interval training routine.

**CARDIO FITNESS US9502**  
(Offered both semesters) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their endurance and cardiovascular levels through daily workouts. Intensity will be increased each work out.

**STEP AND STRENGTH US9504**  
(Offered both semesters) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their endurance, strength and cardiovascular level through step aerobics. Students will learn basic movements and enhance their fitness level. Interval strength training will be incorporated in daily routines.

**COURT SPORTS US9625**  
(Offered second semester) (1 SEMESTER/0.25 credit) Grades 9-12

Students will learn and execute basic strategies and skills needed for both the game of Volleyball and Pickleball. Games, drills, and tournaments will be included in the curriculum.

**INDOOR SOCCER US9607**  
(Offered second semester) (1 SEMESTER/0.25 credit) Grades 9-12

Students will improve their passing, dribbling, shooting and strategy skills in the fast paced game of indoor soccer. Both drills and games will be included in the curriculum.

**MAT AND MIND US9614**  
(Offered both semesters) (1 SEMESTER/0.25 credit) Grades 9-12

Students will learn fundamental yoga postures and principles. Set to music, the class will invigorate your entire body. As the semester progresses, free weights will be added to intensify each pose. Students will learn to connect their breath to each movement. Mindful practices will be incorporated in the curriculum.
SCIENCE

The Science Department offers students the opportunity to explore the fundamental understandings central to each discipline of science and the opportunity to continue their study to a greater depth. Our curriculum is taught in a manner to challenge the student's thinking and to nurture curiosity about the everyday world through experiential learning situations. We value creativity, innovation, and experimentation and view the student as the participant and the teacher as the facilitator. Our intent is to create an atmosphere where student-initiated questions are more numerous than teacher-initiated questions and where collaborative group learning is valued as much as individual accomplishments. Essential to any science endeavor is the ability to realize problems and then develop solutions based on scientific data. As students enter the Upper School program, they will apply acquired science process skills (observing, classifying, inferring, collecting and analyzing data, forming hypotheses, and drawing conclusions). We recognize that science is taught most effectively when connections are made among the academic disciplines. As such, our work involves the application of math, writing, and communication skills. Historical and social justice perspectives of the issues and topics are also explored in our curriculum. Our science courses present the student with problem-solving investigations that grow from authentic, contemporary problems, and issues that have real-world applications.

GRADUATION REQUIREMENTS

Each student must complete at least three years of study in science. The Science Department strongly recommends that students enroll in more than the required number of courses. The six required semesters are:
Grade 9 - Biology (1 year)
Grade 10 - Chemistry (1 year)
Grades 11/12 - Physics (1 year)

Departmental permission is required to override teacher placement recommendations. Please see the Course Override section in Appendix A.

SEQUENCE OF SCIENCE COURSES

BIOLOGY US3212
(1 YEAR/1.0 credit) Grade 9
This foundational course is designed to develop scientific literacy and strengthen skills in scientific investigations through the exploration of topics and concepts in biology. In addition, students will be taught study skills such as note taking, vocabulary acquisition, and how to write in science. The curriculum emphasizes the core fundamentals of scientific literacy such as: design, collection, analysis, interpretation, and communication of scientific information. Topics include the exploration of evolution, ecology, cell biology, and Mendelian genetics.

ADVANCED BIOLOGY US3000
(1 YEAR/1.0 credit) Grade 9
PREREQUISITE: Approval of current science teacher.

This accelerated biology course is designed for students who have demonstrated high achievement and motivation in their previous science studies. This course incorporates statistical and mathematical analysis of data. Students in this course are expected to be independent learners with accomplished study and organizational skills. Topics include the exploration of ecology, evolution, cell and molecular biology, and Mendelian and non-Mendelian genetics.
CHEMISTRY US3312
(1 YEAR/1.0 credit) Grade 10
PREREQUISITE: Successful completion of Biology US3212 or Advanced Biology US3000.

Chemistry is a central science that bridges other natural sciences. This course provides students with the opportunity to study the composition, properties, and behavior of matter and connect those concepts to a greater understanding of the world around them. The curriculum is designed to continue the process of strengthening problem-solving, research, and scientific investigation skills through interactive lessons, project-based activities, and lab work. Topics include chemical reactions, stoichiometric calculations, thermochemistry, and chemical equilibrium.

ADVANCED CHEMISTRY US3100
(1 YEAR/1.0 credit) Grade 10
PREREQUISITE: Successful completion of Biology US3212 or Advanced Biology US3000 AND approval of current science teacher.

Advanced Chemistry is designed for students who have demonstrated high achievement and motivation in their science studies, as well as a superior proficiency in mathematics. Topics include chemical reactions, stoichiometric calculations, thermochemistry, and chemical equilibrium. Students must be independent learners with accomplished study and organization skills.

PHYSICS US3300
(1 YEAR/1.0 credit) Grades 11-12
PREREQUISITE: Successful completion of Chemistry US3312 AND successful completion or concurrent enrollment in Algebra II & Trigonometry US5341 AND approval of current science teacher.

The course explores descriptive and mathematical models for understanding topics such as uniform and accelerated motion, work, energy, energy conservation, forces, Newton’s Laws, sound, waves, oscillations, and circuits. Students are also taught data analysis techniques and experimental design in the lab component of the class. Students are expected to approach the material by participating in discussions and group problem solving, working actively in lab groups, working independently at home, and taking a field trip to an amusement park. Students are assessed on the mastery of content and laboratory objectives with multiple chances to demonstrate mastery of each objective. For part of second semester, students demonstrate understanding of concepts in sound, waves, oscillations, and circuits ending with a capstone project building a functional electric guitar.

ADVANCED PHYSICS US3875
(1 YEAR/1.0 credit) Grades 11-12
PREREQUISITE: Successful completion of Chemistry US3312 or Advanced Chemistry US3100 AND Algebra II & Trigonometry US5341 or concurrent enrollment in Precalculus US5460 AND approval of current science teacher.

The course work of Advanced Physics develops descriptive, mathematical, and computer models for understanding topics such as motion, force, momentum, energy, gravitation, waves, sound, light, electromagnetism, and modern physics.

Using an increased level of mathematics, the models developed in this course are more sophisticated in detail and applied to a wider range of phenomena. Students are also taught data analysis techniques and experimental design in the lab component of the class. Students are expected to approach the material by participating in discussions and group problem solving, working actively in lab groups, and working independently at home, and taking a field trip to an amusement park. Students will be assessed through lab reports, problem-sets, tests, journals, and projects.
ELECTIVE COURSES: GRADES 9-12

ROBOTICS US3730
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9-12. **This course may be taken twice.**
NOTE: Substantial afterschool commitment beyond scheduled class time is required during the robot build season.

Students will apply math and science concepts and engineering principles to build and program a robot to compete in the FIRST Tech Challenge or FIRST Robotics Competition. Class time will focus on engineering process, robotics programming, Computer Aided Design (CAD), 3D printing, electrical circuits, and mechanics. This class serves as the design and fabrication team for the Upper School robotics teams. Each year the FIRST competition and game rules change, so the skills acquired from this course will change according to the competition demands. **Schedule: three times per week and afterschool.**

REMOΤELY OPERATED VEHICLE ROBOTICS (R.O.V.) US3740
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9-12. **This course may be taken multiple times.**
NOTE: Substantial afterschool commitment beyond scheduled class time may be required.

Students will apply math and science concepts integrated with marine sciences to build a remotely operated vehicle (ROV) to compete in the MATE (Marine Advanced Technology Education) underwater robotics competition. Students will explore a wide variety of marine topics such as ecology, marine biology, buoyancy, pressure, thrust, environmental monitoring, sensors, programming, and hydraulics. These topics will focus on the skills and concepts required to overcome the specific technical challenges of designing, building, and programming an ROV to operate in a harsh marine environment and perform real-world engineering tasks and scientific research. Each year, the MATE competition and rules change, so the skills developed each year will change according to competition demands. **Schedule: three times per week and afterschool.**

ELECTIVE COURSES: GRADES 11-12

ADVANCED TOPICS IN BIOLOGY US3850 *subject to enrollment*
(1 YEAR/1.0 credit) Grades 11-12
PREREQUISITE: Successful completion of Chemistry US3312 or Advanced Chemistry US3100 AND successful completion of or concurrent enrollment in physics AND recommendation of current science teacher.

*Advanced Topics in Biology* is a second year biology course that takes an in-depth look at cell biology, genetics, evolution, and ecology. The class will delve further into these topics in smaller units including, but not limited to: cell biology and cancer, infectious diseases, epigenetics, evolution in medicine, animal behavior, and environmental science. Computer simulations, cooperative learning, discussion, case studies, reading from outside texts, individual research, and lab activities are just a few of the strategies that are employed.

ADVANCED TOPICS IN CHEMISTRY US3895 *subject to enrollment*
(1 YEAR/1.0 credit) Grades 11-12
PREREQUISITE: Successful completion of Chemistry 3312 or Advanced Chemistry 3100 AND successful completion of or concurrent enrollment in physics AND recommendation of current science teacher.

*Advanced Topics in Chemistry* begins with a brief review of the topics covered in the sophomore year of *Chemistry*. Students then study thermodynamics and revisit and expand their understanding of modern atomic theory and periodic properties. Bonding and intermolecular forces are also explored. New material for students includes kinetics, equilibrium, acids and bases, electrochemistry, and biochemistry. The course also includes more advanced topics of inorganic chemistry including: quantum mechanics, molecular architecture of solids and liquids, rates of reactions, and various types of equilibria. The course concludes with an introduction to organic chemistry.

Students enrolling in the course are expected to have strong algebraic skills and be proficient using a graphing calculator. Students should be able to demonstrate good problem-solving skills as they analyze data and apply...
equations to complete problem sets, laboratory reports, and exams. Students are also expected to communicate their understandings in well-written lab reports and short research papers.

Concurrent enrollment in Algebra II & Trigonometry US5341 is recommended but not required.

**ADVANCED TOPICS IN PHYSICS** US3920 *subject to enrollment*
(1 YEAR/1.0 credit) Grade 12

Advanced Topics in Physics is a calculus based physics course that takes an in-depth look at the intricate mathematical descriptions of the physical world. Topics covered include classical mechanics such as linear, circular and rotational motion, and oscillations, as well as force, linear and angular momentum, work, kinetic and potential energy, the conservation laws, and special relativity. The course focuses on the application of fundamental insights of calculus in physics, and how these mathematical insights have deepened our understanding of the principles that govern the physical world. Students design a final guided learning project based on individual interest and self-goals.

Computer simulations, cooperative learning, discussions, individual research, lab activities, and taking field trips to amusement parks are just a few of the strategies that are employed. Students will be assessed through formative assessments such as daily check-ins, weekly individual and cooperative quiz, and lab write-ups; and summative assessments such as exams, lab reports, and portfolio for the final project.

**ASTRONOMY, COSMOLOGY, METAPHYSICS, AND EPISTEMOLOGY (A.C.M.E)** US3715 *subject to enrollment*
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 11-12
PREREQUISITE: Successful completion or concurrent enrollment in Physics US3300 or higher.

The topics of this course cover everything from quarks, the smallest sub-structure of matter, to superclusters of galaxies in hopes of illuminating the quest for the Grand Unified Theory of Everything. Historical, as well as modern, models of the universe will be studied, and the nature of human understanding will be discussed. The following topics will form the framework for the class: sub-atomic and particle physics, the four fundamental forces, stellar evolution (including the sun, stars, supernovae, neutron stars, pulsars, and black holes), galactic and cosmic evolution, and the possibility of life elsewhere in the universe. Students are expected to approach the material by reading texts, participating in discussion and group problem solving, working actively in lab groups, working independently at home, and taking field trips for astronomy observations. Students will be assessed through lab reports, tests, journals, essays, and independent projects and presentations. Some astronomy observations may require nighttime meetings.

**CHEMISTRY OF COOKING** US3900 *subject to enrollment*
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12
PREREQUISITE: Successful completion of Biology and Chemistry.

How nutrients are altered by cooking processes is critical in understanding nutrition. This course examines the connection between the macromolecules we eat and how they are changed chemically by cooking. The topics of this course will include the major macromolecules, essential vitamins, and minerals. The course will be broken into discussions on dairy, eggs, meat, fish, edible plants, vegetables, fruits, cereals, and grains. The focus of the science will be on the changes of the materials as the food is processed. The class will consist of labs, readings, discussions, films, lectures, and group work.
CLIMATE SCIENCE US3910 *subject to enrollment*
(Offered second semester) (1 SEMESTER/ 0.5 Credit) Grades 11-12
PREREQUISITE: Successful completion of Biology and Chemistry.

Climate Science is a project-based course designed to investigate the mechanisms contributing to the overall change in our climate building on the foundations that students have made in biology and chemistry. We will study the production of CO\textsubscript{2} and other greenhouse gases and their effects on local, regional, and global weather patterns. Topics include the increase in extreme weather events, the thawing of glacial freshwater and its effect on ocean currents, the prevalence of big agriculture and fertilizer overuse, the impact of the climate change on infectious disease, and issues of social justice and activism. Students will participate in a long-term data collection project analyzing local weather. We will reflect on our carbon footprint and how we can improve the sustainability of our lifestyles.

MIND AND BRAIN (previously Topics in Psychology) US3897 *subject to enrollment*
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 11-12
PREREQUISITE: Successful completion of Biology and Chemistry.

This elective will allow students to delve into a number of psychology topics. We will begin by learning the history of psychology and its varied approaches. Then we will take a deep dive into the nervous system, brain, and endocrine system in order to better understand human behavior. We will also study topics like sensation and perception, consciousness, psychoactive drugs, and positive psychology. Students will learn about cognition and memory and be able to connect these topics to their personal life as a student. Life span development and the effect of nature vs. nurture will also be studied. Psychological disorders from anxiety and mood disorders, to those classified as dissociative, schizophrenic, and personality will be explored. Upon completion of the course students will have a greater appreciation for the complexities of human behavior and neuropsychology.

SCIENCE DISCOVERY: ESSENTIAL QUESTIONS US3975 *subject to enrollment*
(Offered first semester) (1 SEMESTER / 0.5 credit) Grade 12
Prerequisite: Concurrent enrollment in Science Fiction: Essential Questions US1575

How do science discoveries influence science fiction writers, and in turn how does science fiction writing influence scientists in their discovery process? This course will examine the interplay between scientific discovery and literary creation, exploring how scientists and writers pursue similar questions in their respective disciplines, and how each discipline challenges the other. This pairing of laboratory science and literature courses asks students to explore how the scientific discovery process is often driven by factors outside the realm of science, factors such as societal context and literature. At the same time, they will examine how science fiction writers consider the ramifications of discovery and invention to provide a warning – or at least to encourage further thought – about the impact of breaking new and uncharted ground. This project-based course will explore areas such as climate change and environment; genetics and genetic research; robotics and artificial intelligence; and apocalyptic visions as they relate to each of these areas.

In this course students will write in both scientific and literary formats, exploring the language each uses to best convey ideas to their respective audiences. Students will write speculative short stories and literary analysis papers in addition to writing literature reviews of articles from science journals for both professional and general audiences, and original research papers after designing and conducting laboratory experiments.

A joint final project for Science Discovery: Essential Questions and Science Fiction: Essential Questions will ask each student to write an original research paper and craft a science fiction short story around a self-generated specific and consequential question.
VISUAL ARTS

The Visual Arts Department offers students abundant opportunities for joyful expression and meaningful artistic creation. Our goal is to help nurture the interests and imagination of each student, by providing a wide range of materials and techniques which promote a lifelong appreciation and passion for the art making process.

GRADUATION REQUIREMENTS: A total of 2.0 credits selected from among the performing (drama, dance and/or music) and the visual arts are required.

ELECTIVE COURSES: Grades 9-12

ARCHITECTURE I US7511
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9-12

Architecture I introduces skills, techniques and concepts that create a robust foundation for the understanding of architectural principles. Students will create 3D models of existing buildings, generate 3D models based on basic floor plans, and design their own unique structures. Concepts in design, critique, and critical thinking will be utilized. Field trips have included the Chicago River Architectural Tour, the Frank Lloyd Wright home and studio and the IIT campus.

CERAMICS I US7615
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9-12

Take this introductory class to learn the fundamentals of producing beautiful clay objects, both functional and sculptural. This class covers the conceptual ideas, building methods and glazing techniques represented in the history of ceramic art. The primary building techniques are: pinch pot, coil method, slab method, and throwing on the pottery wheel. Surface decoration, carving, applied design, majolica and glazing are covered. There will be a variety of assignments that offer the student an arena to prove his/her creative and technical abilities.

Ceramics may be elected more than once as Ceramics II US7625. Advanced assignments vary depending on experience. Ceramics II US7625 prerequisite: Ceramics I US7615 and the signature of the teacher.

COMPUTER ANIMATION US7355
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9-12

This introductory course explores the ability of 2D animation software to create the illusion of motion from a series of still images. Based on the core concepts of visual storytelling, students investigate the transition from static to dynamic in the context of narrative structure. Walk cycles, lip sync and stop-motion principles are explored. Software used includes Photoshop, Motion and FCP X.

CREATING HISTORICAL DOCUMENTARIES US7010
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 10-12
PREREQUISITE: Successful completion of Documentary Video Production I US7910

Students have the option of taking this course as a history elective, US2010 or an art elective US7010

In Historical Documentaries students will research, write, film, edit and produce a medium length documentary (or at least two shorter documentaries) about an important historical event, moment, crisis, or social justice cause. Students will watch and critique a variety of important historical documentaries, to help identify what makes exceptional films. And this interdisciplinary course will provide students opportunities to learn and sharpen key historical skills, including writing, research and storytelling techniques. Additionally, students will gain experience with pre-production, shooting, lighting, interview techniques, editing, graphics and audio. This class uses full HD cameras and Final Cut X to create professional quality videos.
DESIGN WITH PHOTOSHOP US7350  
(Offered first semester) (1 SEMESTER/0.5 credit)  Grades 9-12

In this course students use Adobe Photoshop to stretch the limits of what is possible with digital image generation and modification. From examining typography through designing their own concert posters to colorizing old black and white photos, students will learn to use some of the most powerful graphic design tools available.

DOCUMENTARY VIDEO PRODUCTION I US7910  
(Offered both semesters) (1 SEMESTER/0.5 credit)  Grades 9-12

Students will learn various styles and techniques of video production through the creation of a series of three minute documentaries. Pre-production will involve planning and preparation. Field production gives students experience with shooting, lighting and interview techniques. Post-production involves editing, graphics and audio. This class uses full HD cameras and Final Cut X, Apple’s most advanced digital editing software, to create professional quality videos.

DOCUMENTARY VIDEO PRODUCTION II US7920  
(Offered both semester) (1 SEMESTER/0.5 credit)  Grades 9-12

PREREQUISITE: Documentary Video Production I US7910

Becoming a better filmmaker requires the careful study of contemporary film. Critiquing professional documentaries will help students understand what makes exceptional films stand apart. Production values, originality, artistic responsibility and creative integrity will be focused upon. A minimum of three highly polished and tightly edited six minute documentaries will be produced over the course of the semester.

DRAWING I US7320  
(Offered first semester) (1 SEMESTER/0.5 credit)  Grades 9-12

Drawing I is an introductory class that teaches the student to see more clearly and to respond more accurately. The goal is to improve the student’s mastery of the visual language. Techniques such as: contour line, blending values, stippling to achieve tonal changes and learning the rules of perspective to create the illusion of three dimensional space are taught. Media includes: pencil, charcoal, marker, ink or cray-pas. Subject matter includes: still life, figure, portrait and natural objects.

DRAWING NOW US7340  
(Offered second semester) (1 SEMESTER/0.5 credit)  Grades 9-12

Drawing Now is designed to be a meaningful investigation into drawing which moves beyond basic mechanics, techniques, and concepts. Students will strengthen their strategies for creating dynamic compositions while further exploring the creative process. Emphasis will be placed on three areas: improving students’ observational skills through practice, manipulating the elements and principles of design, and exploring composition with a variety of materials. Inspiration will come from observation and imagination. A sketchbook, portfolio, and all other materials are provided.

FABRIC & FIBER ARTS I US7745  
(Offered first semester) (1 SEMESTER/0.5 credit)  Grades 9-12

This course offers studio experience in fiber art forms, which include: fiber sculpture, knitting, weaving, felting, and sewing. A focus on traditional and contemporary art and techniques will be explored.

Fabric & Fiber Arts may be elected again as Fabric & Fiber Arts II US7750. This course will build on the foundations of Fabric and Fibers Arts. The students will explore knitting, weaving, felting and sewing in more depth. The students will have more freedom to personalize their work and explore their fiber/fabric interests. Prerequisite: Fabric & Fiber Arts US7745 and signature of the teacher.
METALSMITHING I US7731  
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9–12

Basic Metalsmithing I introduces the craft of constructing small sculpture and jewelry in metal. Students will create original designs in copper, brass, or silver. We will use piercing, chasing and texturing to shape new forms and learn to fabricate with cold connections and soldering.

METALSMITHING II US7741  
(Offered first semester) (1 SEMESTER/0.5 credit) Grades 9–12
PREREQUISITE: Metalsmithing I US7731 and signature of the teacher.

Metalsmithing II assignments will advance basic skills and vary depending on experience. This course advances the craftsmanship and art in light metals construction. Students will create original designs in copper, brass, nickel or silver. We will study metallurgy, add new skills in forming and torch work, and may set stone. Designing in metal combined with other materials such as acrylic, wood, glass will be explored. Students will demonstrate competency in a minimum of three finished projects.

PAINTING I US7111  
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9–12

Paint expresses. Paint can record, decorate, and make a statement. You can make art with a purpose. Painting the still life and quoting a master develop visual discrimination and hone technical and compositional skills. Self-portrait and social issues as subjects allow students to explore the possibilities of self-expression and communication in their art. Historical material as example and stimulus will be presented. Portfolio and all other material will be provided.

This course may be elected again as Advanced Painting US7121. Advanced assignments vary depending on the passion and curiosity of the student and conversation with the instructor. Advanced course prerequisite: Painting I US7111 and the signature of the teacher.

PHOTOGRAPHY I US7211  
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9–12

Students learn the fundamentals of photography. In this beginning course special emphasis is placed on camera concepts such as aperture, shutter, and ISO. Students will learn the essentials of Adobe Photoshop and Lightroom. Students need not acquire a camera, however, students are encouraged to bring their own camera if they have their own. The first half of Photo I, students will shoot solely in black and white. The second half of class the students will delve into the world of color and the impact it can make.

PHOTOGRAPHY II US7222  
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9–12
PREREQUISITE: Photography I US7211 and the signature of the teacher.

Photography II encourages students to realize a personal vision and style. Students will explore in depth a variety of different genres of photography. This will include but not be limited to environmental portraiture, studio portraiture, narrative tableau, high dynamic range, painting with light, photojournalism, fashion photography and personal work. Within these different genres students will gain experience in camera technique, printing, studio lighting, and composition. Adobe Photoshop and lightroom will be the digital darkroom where students learn professional image editing techniques to adjust, enhance, and print their photographs to sizes up to 13X19.
INTRODUCTION TO DRAWING AND PRINTMAKING  US7360
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9-12

Students will learn the basics of drawing to gain accuracy and stronger visual perception. This class is for anyone at every level who wants to feel more confident drawing. We will also learn how to turn our drawings into prints using traditional printmaking techniques (relief printing, block printing, etching, and silkscreen). You will leave this class with more drawing confidence, printmaking skills, and a body of work.

SCULPTURE I US7711
(Offered second semester) (1 SEMESTER/0.5 credit) Grades 9-12

Come design, build, and construct in three dimensions using a variety of techniques and materials as we explore the additive and subtractive approaches to sculpture. Processes or projects may include wire manipulation, transforming an object, carving an abstract form, casting an object or creating a narrative assemblage.

WOODWORKING I US7411
(Offered both semesters) (1 SEMESTER/0.5 credit) Grades 9-12

Woodworking I is a studio based class. Students use hand and power tools to construct both sculptural and functional student designed objects. Students use the elements and principles of artistic design to plan and produce projects of their own design. Students learn and hone the skills and craft necessary to complete their projects. All basic materials are provided.

Woodworking I may be elected again as Woodworking II US7421. Advanced assignments vary depending on experience. Advanced students learn to draft a plan for more complex projects, use more advanced power tools, including metal working and fabrication tools. They are expected to assist other students with skills in which they themselves excel. Prerequisite: Woodworking I US7411 and the signature of the teacher.

YEARBOOK PRODUCTION US0850
(1 YEAR/.75 credit) Grades 9-12

NOTES: After-school and Saturday work sessions will be required as necessary. Class size is limited: students will be selected based on grade and teacher/editor recommendations. The course may be taken more than once for additional credit. **Schedule: three times a week (G-1, G-3, G-5).**

This workshop course is designed to aid students in the successful production of a quality yearbook, *The Record*, and its fall addendum, *The Spring Supplement*. Students will be involved at every level of the process – from design, writing, and editing, to photography and computer layout, to advertising, fundraising, and promotion. The main objective is to accurately and creatively chronicle the year as it is experienced by the entire JK through 12 community.
FRANCIS W. PARKER SCHOOL UPPER SCHOOL FACULTY

ADMINISTRATION

Daniel B. Frank, Principal
B.A. American Studies, Amherst College; M.A. Psychology, University of Chicago; Ph.D. Psychology, University of Chicago.
Previous experience: Lecturer, Department of Psychiatry, University of Chicago. Executive Director, International Society for the Psychoanalytic Study of Organizations; Publisher of Schools, the journal of FWP.
At Francis W. Parker since 1988.

Ruth Jurgensen, Assistant Principal
B.A. English Literature, Connecticut College; M.A. English and American Literature, Brown University.
Previous experience: Upper School Head of LREI (Little Red School House and Elisabeth Irwin High School) in NYC. Ms. Jurgensen enjoys lacrosse, has a love of literature and building with her son's legos. At Francis W. Parker since 2014.

Justin Brandon, Head of Upper School
B.A. Political Science and African American Studies, Macalster College; M.A. Educational Policy and Administration, University of Minnesota. Previous experience: Upper School Director of Moorestown Friends School. Form Dean at The Episcopal Academy. Director of Diversity and Community Relation at The Episcopal School of Dallas. Mr. Brandon enjoys photography, traveling and watching college basketball with his family. At Francis W. Parker since 2017.

Sven Carlsson, Director of Studies (Grades 6-12)
B.A. East Asian Studies, Harvard University; M.A. Gifted Education, Columbia University.
Mr. Carlsson enjoys martial arts, parametric equations, and reminiscing about his adorable pet bunny, Rampage. At Francis W. Parker since 2008.

Susan Weingartner, Director of College Counseling
B.A. Fine Arts, St. Mary’s College of Maryland; M.A.S., Marketing and Management, Johns Hopkins University.
Previous experience: Director of Admissions for St. Mary’s College; Director of Enrollment, City College of New York; Associate Director of Admissions, University of Chicago. Mrs. Weingartner enjoys throwing pots on the pottery wheel during her free time. At Francis W. Parker since 1997.
ATHLETICS

Robert Starks, Athletic Director
B.B.A. Marketing, Western Illinois University; M.B.A. Entrepreneurship and Sports Management, DePaul University.
Previous experience: Assistant Athletic Director for Facilities and Operations, Chicago State University. Park Supervisor of Recreation, Chicago Park District. Regional Operations Manager, After School Matters. At Francis W. Parker since 2015.

Laura N. Gill, Assistant Athletic Director
B.A. Communication Studies & History, Minor: Public Relations and Women’s Studies, Saint Mary’s College, Notre Dame; M.ED Secondary Education, DePaul University.
Previous Experience: Assistant Athletic Director, & Social Studies Teacher, Trinity High School (River Forest). Prior to assuming the Assistant Athletic Director position at Parker, Gill coached numerous sports at both Trinity (RF) and Parker; most notably spearheading the formation of a women’s lacrosse program at Trinity (RF) in which she subsequently led for two years. At Francis W. Parker since 2015.

ENGLISH

Kate Tabor, Co-Chair of English Department, English Teacher, Adviser to "The Weekly"
M.S.Ed. Secondary English, Northwestern University. Kate is an avid reader and gardener who loves crossword puzzles and growing vegetables. At Francis W. Parker School since 1998.

Theresa Squires Collins, English Teacher
B.S. Miami University, Oxford Ohio; M.A. Northwestern University
Previous teaching experience: Evanston Township High School, Northwestern University (adjunct in School of Education and Social Policy. Relevant Experience: Theresa is co-director of NIPEN, National Institute of PEN. She is also the president of the PEN (Progressive Education Network) Board of Directors. At Francis W. Parker since 2006.

Stacey A. Gibson, English Teacher
B.A., DePaul University; M.A. St. Xavier University.
Ms. Gibson has taught for two decades in both public and independent schools. Her teaching pedagogy is most informed by the ways history, psychology, and group dynamics shape organizational and educational experiences. Gibson's writing on pedagogical choices and best practice has appeared in several journals and anthologies, and she remains committed to naming, framing, and re-imagining individual and collective power. At Francis Parker since 2012.

Matt Laufer, English Teacher
B.A. Yale University; Ph.D. English Literature, Columbia University.
Mr. Laufer has taught and coached at The Hopkins School in New Haven, CT; Phillips Academy in Andover, MA; Saint Ann’s in Brooklyn, NY; and The Waynflete School in Portland, ME. He has also taught at Barnard College and Columbia University, where he won the graduate student teaching prize and then continued to teach as an adjunct professor. He is a co-founder of The Manhattan Choral Ensemble and has published articles on Melville, Woolf, and Nabokov in a handful of literary journals. He has taught literature seminars at the Newberry Library since 2010. At Francis W. Parker since 2009.

Mike Mahany, English Teacher
B.A. English and Philosophy, Loyola University; M.A. Literature, Northern Illinois University.
Previous experience: English teacher and newspaper moderator at Quigley South High School; middle school teacher at St. Pius School. At Francis W. Parker since 1990.

Cory Zeller, English Teacher
B.A. English, University of Pennsylvania; M.A. Curriculum Development, University of Michigan.
Ms. Zeller has taught at the Town School for Boys in San Francisco, CA; the International Academy in Bloomfield Hills, MI; the Latin School of Chicago; and, the University of Michigan. She has worked with the
America Reads program as an educational facilitator and has evaluated curriculum with the Office of Educational Innovation and Evaluation. At Francis W. Parker since 2013.

**GENERAL CURRICULUM**

**Binita Donohue** Chair of Counseling Department, Health Teacher  
B.A. Biochemistry, Molecular and Cell Biology, Northwestern University; MSW Jane Addams College of Social Work, University of Illinois at Chicago.  
Ms. Donohue was born in India and grew up in the suburbs of Cleveland, OH. She had planned to go to medical school but then discovered a passion for people and social justice and went into social work. Prior to coming to Parker she worked at the Chicago Board of Education and the Cooperative Association for Special Education. She also is an adjunct faculty member at the School for Social Service Administration at the University of Chicago. Ms. Donohue loves to travel and, of course, to eat foods on her journeys. At Francis W. Parker since 2013.

**Gary Childrey**, Upper School Counselor, Health Teacher  
B.A. Stanford University; Ph.D. Clinical Psychology, Boston University. At Francis W. Parker since 1998.

**HISTORY & SOCIAL STUDIES**

**Andrew Bigelow**, Co-Chair of History Department, History Teacher  
B.A. Government, St. Lawrence University; M.A.T. and C.A.G.S., Tufts University.  
Mr. Bigelow taught in the suburbs of Boston for eleven years, coached varsity lacrosse, and taught graduate students in education at Tufts University and Merrimack College. He is an adjunct professor of education at DePaul University. Mr. Bigelow enjoys politics, non-fiction, tennis, snowboarding, and spending as much time as possible with his family. At Francis W. Parker since 2007.

**Anthony Shaker**, Co-Chair of History Department, 7th Grade History Teacher, M.S. Model UN Sponsor,  
B.A., University of Notre Dame M.Ed., Stanford University. Anthony has been teaching since 2002, working at schools in both the Chicago and Boston areas. At Francis W. Parker since 2011.

**Jeanne Polk Barr**, History Teacher  
B.A. History, Northwestern University; M.A. History, University of Illinois.  
Ms. Barr enjoys fiction, theatre and film, biking, pie, politics, embryonic democracy, and a good book. At Francis W. Parker since 1999.

**Kevin Conlon**, History Teacher  
B.A. History, University College Dublin/University of Pennsylvania; M.A. History, University of Iowa; Ph.D. Candidate University of Iowa.  
Mr. Conlon grew up in Ireland, and lived in Germany and France. He enjoys being father to his three sons, and likes skiing, mountains, travel and historical drama. At Francis W. Parker since 1997.

**Susan Noelle Elliott**, History Teacher  
B.A. History, College of William and Mary in Virginia; M.A. History, Wake Forest University  

**Dan Greenstone**, History Teacher  
B.A. Political Science, Haverford College; M.Ed. Harvard University  
Mr. Greenstone has taught history and social studies for many years at both the high school and college level. He is also a scholar in the fields of history and children’s literature, as well as the author of numerous short stories, essays, and a novel. At Francis W. Parker since 2012.
INTEGRATED LEARNING AND INFORMATION SCIENCES

Annette Lesak, MS/US Library Information Specialist, Integrated Learning and Information Science (ILIS) Department Chair  
B.A., English and Creative Writing, University of Illinois, Urbana-Champaign, M.S. Library and Information Science, University of Illinois, Urbana-Champaign  
Ms. Lesak has been in school libraries since 2007. Her areas of interest include intellectual freedom, graphic novels, design thinking and maker-centered education. At Francis W. Parker since 2017.

LANGUAGES & CULTURAL STUDIES

Liz Villagómez, Co-Chair of Language & Cultural Studies Department, Spanish Teacher  
B.A, Secondary Education (concentration in Spanish), University of Illinois at Chicago; & M.A, Educational Leadership, DePaul University.  
Mrs. Villagómez just joined the Upper School as of this year, but previously taught in Parker’s Middle School program for twelve years. She also held the position of Team Leader in the Middle School for 4 years. At Francis W. Parker since 2006.

Mark Aymar, Latin Teacher  
B.A. Classical Languages, Seton Hall University; M.A.T., Seton Hall University.  
Mr. Aymar maintains an active interest in bluegrass music, and writing. At Francis W. Parker since 1990.

Julia Garner, Spanish Teacher  
B.A. Spanish and French, Bowdoin College; M.A. and Ph.D. Hispanic Studies, Brown University.  
Ms. Garner has taught Spanish and Latin American literature at the college level. In addition to second language pedagogy, Ms. Garner’s areas of specialization are 20th-century Mexican literature and visual culture, contemporary Latin American novels, and Latin American cultural studies. Ms. Garner has a passion for theater; she has performed with a Spanish-language theater company and has led theater workshops in Brazil. At Francis W. Parker since 2014.

Min-I Lee, Mandarin Teacher  
M.S. Northern Illinois University.  
Ms. Lee has taught Chinese to heritage Chinese students as well as non-heritage students for more than 10 years. She is always passionate about teaching Chinese and learning other languages herself. At Francis W. Parker since 2008.

Cindy Marker, French Teacher  
B.A. French, Northwestern University; Ph.D. French, University of Michigan.  
Ms. Marker has taught all levels of high school and college French. She has lived in France and Switzerland and led student trips to France and Belgium. Extracurricular interests include French Club and theater. At Francis W. Parker since 2008.

Lorin Pritikin, French Teacher  
B.S. Education/French and Communication Arts, University of Wisconsin-Madison.  
Ms. Pritikin has interests in a broad range of topics including research in cognition, diversity issues, and French language and cultural education. Her particular study of the interface between first language literacy challenges and second language acquisition led to the design and implementation of Parker's first alternative foreign language and global studies program for students who struggle with foreign language learning. As a result of this inclusionary program, since 1995, no student has been waived out of foreign language and cultural education. She has lived in France and has led student trips to Belgium and France. She actively promotes people-to-people diplomacy and global citizenry in her role as Parker's AFS faculty advisor and Sister Cities Casablanca Committee liaison. At Francis W. Parker since 1989.

Yadiner Sabir, Spanish Teacher  
B.A. Social Sciences, University of Puerto Rico at Río Piedras; M.A. Communication Studies, New Mexico State University at Las Cruces.
Mrs. Sabir has taught for 14 years at NC State University in Raleigh, NC; Lynn University in Boca Raton, FL; University of Puerto Rico at Bayamón and more recently at Cary Academy in Cary, NC. She has worked as a World Language Exchange Coordination establishing and running dual exchanges between Cary Academy and Santiago College in Santiago de Chile, Chile as well as Quilmes High School in Quilmes, Argentina.
At Francis W. Parker since 2015.

**LEARNING RESOURCES**

**Bridget Walsh**, Learning Resource Department Chair, Upper School (11th -12th)
B.A. Sociology, M.A. Multi-Categorical SpEd, St. Xavier University; Learning/Behavior Specialist. Committed to student-centered learning experiences; highlighting student strengths, and facilitating developments in areas of need. At Francis W. Parker since 2013.

**Julie Holman**, Learning Resource Teacher, Upper School (9th-10th)
B.S. Speech, Northwestern University; M.A. Learning Disabilities, Northwestern University. At Francis W. Parker since 1987.

**MATHEMATICS**

**Wendy Olt**, Co-Chair of Mathematics Department, Mathematics Teacher
B.S. Mathematics, University of Texas – Austin; M.A. Mathematics Education, University of Texas - Austin. Ms. Olt enjoys watching football, going out to eat and spending time with her two kids. At Francis W. Parker since 2008.

**Kamton Woodard**, Co-Chair of Mathematics Department, Mathematics Teacher

**Victoria Lee**, Mathematics Teacher
B.A. Mathematics, North Park University; M.S.T. University of Illinois at Chicago, Mathematics Teaching; MEd, Loyola University, Chicago, Leadership and Supervision. Ms. Lee enjoys spending time with her family, playing golf with friends and planning riveting and engaging lessons for her classes. At Francis W. Parker since 2008.

**Ethan Levine**, Mathematics Teacher
B.A. Linguistics, University of Pennsylvania; M.S.Ed. Mathematics Education, University of Pennsylvania. Mr. Levine loves trivia, basketball, guessing where people are from based on their accents, crossword puzzles, making obscure Seinfeld references, maps and geography, bothering his wife with his aforementioned passions, and playing with shapes and numbers with his son. At Francis W. Parker School since 2017.

**Christopher Riff**, Mathematics Teacher
B.S. Mathematics and Physics, Bates College; Ph.D. Physics, Dartmouth College; Previously at Francis W. Parker 1979-1984. Taught at the Knox School (Long Island, NY) for eight years. At Francis W. Parker since 2002.

**Steve Tyler**, Mathematics Teacher
B.A. Mathematics, Indiana University; M.S. Special Education, Ball State University. Mr. Tyler enjoys traveling, watching all types of sporting events, exploring the performing arts, attending concerts (mostly of 80’s bands), and dining out all over Chicago. Mr. Tyler is a varsity basketball official in Indiana and worked the State Finals in 2018. At Francis W. Parker since 2018.
Robert Wilson, Mathematics Teacher  
B.S. Electrical Engineering, University of Illinois, Champaign-Urbana, M.S. Mathematics Teaching, DePaul University. Mr. Wilson enjoys traveling, camping, hiking, bike riding, learning languages, logic puzzles, and music of many genres. At Francis W. Parker since 2013.

Laury Wolf, Mathematics Teacher  
B.A. Economics with concentration in Mathematics, University of Illinois; M.A. in Mathematics Education, New York University. In her spare time, Ms. Raff enjoys spending time with her dog and doing pilates. At Francis W. Parker since 2016.

**Performance Arts**

Leslie Holland Pryor, Chair of Television & Theater Arts Department, Teacher  
Member of AEA, AFT, SAG and AFTRA B.A., Pennsylvania State University; M.F.A., University of Wisconsin-Madison. Ms. Holland Pryor has worked at most equity houses in Chicago including, Victory Gardens, The Goodman Theatre, Marriott Lincolnshire and Steppenwolf Theatre. She won a Chicago Emmy for “A Place of Their Own” and a Black Theatre Award for “Best Director” for Lynn Nottage’s “CRUMBS FROM THE TABLE OF JOY at Steppenwolf. At Francis W. Parker since 1998.

Kingsley Tang, Chair of Music Department, Diversity, Equity & Inclusion Co-Chair  
B.M., Music Education, Northwestern University. B.M., Music Composition & Conducting, Northwestern University; Mr. Tang lives in Evanston with his wife, two children, and dog Buffy. He enjoys writing, running, and spending time with his family. At Francis W. Parker since 2010.

Emma Castaldi, Music Teacher  
B.M. Music Education, Northwestern University; M.M. Music Education, Northwestern University; Ms. Castaldi has experience teaching private voice lessons and singing in an a cappella group! Her favorite memory from her a cappella group experience was traveling to Cape Town, South Africa to direct a music workshop… twice! At Francis W. Parker School since 2018.

Stu Greenspan, Music Teacher  
B.M., American Conservatory of Music (jazz studies). Mr. Greenspan composes for and performs with a variety of jazz and pop music groups, and he engineers recordings for many theater companies throughout the country. He has served on the music faculty of Columbia College Chicago since 1996. At Francis W. Parker School since 1998.

Betty Lewis, Violin Teacher, Orchestra Director  
B.M., Violin Performance, Chicago Music College – Roosevelt University. Violin/Orchestra teacher – People’s Music School (1983-1992); Faculty Member – Birch Creek Music Performance Center in Door County, WI; member of Lake Forest Symphony, Peninsula Music Festival (WI), and extra list for Chicago Symphony Orchestra. At Francis W. Parker since 1992.

Nick Rupard, Performing Arts and Visual Arts Teacher  
B.S. Theater, Indiana State University; M.F.A., Scene Design and Technical Theater; Wayne University, Director of Design and Technical Ensemble since 2002. At Francis W. Parker since 2007.

Alec Synakowski, Music Teacher  
B.A. Music Education, DePaul University, M.M.Ed. VanderCook College of Music. Mr. Synakowski loves creating and performing music from around the world, especially Irish and American folk music. He plays several instruments including the trumpet, mandolin, guitar, and banjo. His passion for progressive music education is joined by his love of flying private airplanes, and adventuring outdoors! At Francis W. Parker since 2010.

Florence Walker Harris, Dance Instructor
PHYSICAL EDUCATION/ATHLETICS

Jan Zoufal, Chair of Physical Education Department, Physical Education Teacher  
B.S. Physical Education, University of Illinois, Chicago; M.S. Exercise Physiology, University of Illinois-Chicago. At Francis W. Parker since 1985.

Willie J. Banks, Physical Education Teacher  
B.S. Physical Education, University of Illinois at Chicago. M.A. Concordia University: School of Leadership and Supervision. Mr. Banks enjoys spending time with his family and the game of golf. At Francis W. Parker since 1989.

Terry Davis, Physical Education Teacher  
B.S. Fitness Management, DePaul University; M. Ed. School Guidance Counseling, DePaul University. Mr. Davis enjoys playing sports and working out. At Francis W. Parker since 2000.

Pat Pagnucco, Physical Education Teacher  
B.S. Physical Education, University of Wyoming; M.Ed. Physical Education, DePaul University. At Francis W. Parker since 1978.

Kara L. Turpin, B.S. Physical Education Teacher  
B.S. Physical Education, DePaul University. Previous work experience: Walt Disney Magnet School. Ms. Turpin is also an ACE certified personal trainer and group fitness instructor. She leads sold out interval training classes at Shred415. Ms. Turpin enjoys challenging herself in new ways by training for adventure obstacle races. At Francis W. Parker since 2016.

SCIENCE

George Austin, Co-Chair of Science Department, Science Teacher  
B.S. Engineering Physics, and B.A. Philosophy, University of Illinois; M.S. Education and Social Policy, Northwestern University. Mr. Austin enjoys the energy and elemental rhythms of the universe whether expressed as salsa dancing or cosmology. At Francis W. Parker since 1997.

Angela Miklavcic Brandon, Co-Chair of Science Department, Middle School Science Teacher  
A.B. Social Anthropology, Harvard University; M.S. Curriculum Development and Instructional Technology University at Albany; M.Ed. Private School Leadership Columbia University. Prior experience: Emma Willard School (Troy, NY) and The Episcopal Academy (Philadelphia, PA). Ms. Miklavcic is a former high school chemistry teacher and coach (basketball and crew). She loves reading, gardening, traveling, and hanging out with her family. At Francis W. Parker since 2017.

Elizabeth Druger, Science Teacher  

John Paul Iaconianni, Science Teacher  
B.A. Chemistry and Biochemistry, LaSalle University, Graduate work in Organic Synthesis and Methodology, University of Maryland, College Park. When not reading, drawing, or cooking, Mr. Iaconianni can be seen running all around the city of Chicago. At Francis W. Parker since 2014.

Aaron Lee, Science Teacher  
B.S. Systems Engineering, United States Naval Academy; M.Ed. Education, DePaul University. Mr. Lee enjoys hiking and camping with his wife and two children. At Francis W. Parker since 2013.
Bridget Lesinski, Science Teacher
B.A. Biology, Drake University; M.Ed. Education, DePaul University. Previous experience: Barrington High School (Barrington, IL), Lincoln-Way High School (Frankfort, IL) Mrs. Lesinski is interested in the Spanish language, traveling, reading and keeping up with her three boys. At Francis W. Parker in 1999.

Kara Schupp, Science Teacher
B.A. Biology Concordia College; M.S. Secondary Education University of Nebraska at Omaha. Previous experience: Millard South High School, Milken Community High School, Mayfield Senior School, and Bernard Zell Anshe Emeth Day School. Ms. Schupp enjoys spending time outdoors and having adventures with her family. At Francis W. Parker since 2011.

Leslie Webster, Science Teacher
M.S. and B.S., Biochemistry, University of California-Riverside. Previous experience: Palisades Charter High School (Pacific Palisades, CA), Norte Vista High School (Riverside, CA), Sherman Indian High School (Riverside, CA). Mrs. Webster enjoys running and running after her daughters. At Francis W. Parker since 2004.

Ryan Zaremba, Science Teacher
B.S. Molecular and Cellular Biology, University of Illinois at Urbana-Champaign and M.Ed. Secondary Education, University of St. Francis. Previous experience: Bolingbrook High School (Bolingbrook, IL), Morton West High School (Berwyn, IL), Johnson College Preparatory High School (Chicago, IL), Elk Grove High School (Elk Grove Village, IL). Mr. Zaremba is interested in health and fitness and an avid CrossFit enthusiast. He also loves to travel, home improvement and enjoys spending time with his family and his dogs. At Francis W. Parker since 2015.

Xiao Zhang, Science Teacher
B.A. Physics, University of Chicago; M.Ed. Education, Loyola University Chicago. Mr. Zhang enjoys hiking and reading classical novels. At Francis W. Parker since 1999.

VISUAL ARTS

Christopher Turner, Chair of Visual Arts Department, Lower School Woodworking teacher.
B.F.A. School of the Art Institute of Chicago. At Francis W. Parker since 1988.

Travis Chandler, Visual Arts Teacher
B.A. Digital Cinema, DePaul University. Travis worked in broadcast television, interactive multimedia and finally digital advertising before realizing he’d much rather be teaching. Currently he also teaches classes in the Cinema and Interactive Media department at DePaul University. He also plays music but he doesn’t talk about that much. At Francis W. Parker since 2013.

Caroline Gardner, Visual Arts Teacher
B.F.A Baylor University in Texas; M.A. Ed North Park University-Chicago
Previously taught at Rolling Meadows High School. She received her M.A. Ed. with a certificate in teaching art K-12 and regular ed K-9. Caroline loves teaching and making her own artwork in paint, photo, and print mediums. In her free time she can often be found at the park with her three young sons. At Francis W. Parker since 2011.

Katie Palmer, Visual Arts Teacher
B.F.A. The Rhode Island School of Design, M.A.T. Brown University,
Previously chaired the visual arts department and taught at the Harvard Westlake School in Los Angeles, CA. At Francis W. Parker since 2018.

Nick Rupard, Visual Arts and Performing Arts Teacher
B.S. Theater, Indiana State University; M.F.A. Scene Design and Technical Theater; Wayne University, Director of Design and Technical Ensemble since 2002. At Francis W. Parker since 2007.
PLANNING YOUR SCHEDULE OF CLASSES

Since we are frequently asked, below is advice from the college counseling office’s perspective.

FIRST, GATHER INFORMATION FROM THE RIGHT PEOPLE:

- For math, science and languages, most students in the first few years of Upper School are provided with a recommendation for placement from the teachers in those disciplines.
- When choosing a language, don’t feel pressured to take or not take a particular language simply because of previous exposure/knowledge. Instead, think ahead about your entire high school career trajectory (and even what you might choose to study beyond.) Ask questions, meet teachers, talk with others.
- Look closely at all of the Performing & Visual Arts options Parker offers each year - before you need to register.
- In later years and/or electives, seek advice from teachers in specific disciplines who know you, your work in that subject, as well as what might be expected in the class. Talk with students in upper grades who have taken the course already.
- In terms of providing advice regarding the number and/or “level” of particular courses to take each semester, you, your teachers, as well as your advisor and your parent(s), will all be in a better position than anyone in college counseling to provide guidance. If specific information is needed, division heads would also be helpful.
- Particularly if there are concerns about stress and/or time management, check with our learning specialists and/or the counseling department for their input.
- If and when possible, each year take a class that you are excited about (either because you love it already or because you want to learn something new – in high school AND in college!)

THINGS TO CONSIDER FROM THE COLLEGE COUNSELING PERSPECTIVE:

- In simple terms, challenge yourself appropriately each and every year. We all learn and grow, but everyone is different. It’s a process, not a race. It is wise to build a strong foundation before moving on. Therefore, whenever possible, choose a pace that is comfortable for you.
- How might you be able to choose courses that will result in a schedule (for all four years) that challenges you and fosters your growth and development without being too demanding for your own comfort level? Consider what areas interest you most. What subjects come more naturally to you? How might that affect when and how many courses you take each year?
- Consider your own learning style. (i.e. Is an independent study good for you or a disaster waiting to happen? Is “more” better for you? Or is less?)
- Personalize if/when you can. Do you love languages? If so, is there a way to learn two? Or would you prefer to take more mathematics courses after our language requirement is complete?
- Think outside of the box; consider creative options. Talk to your teachers, advisors, classmates, and brainstorm with people who know you well to make sure you’ve thought of all of your options.

THEN, THINGS TO CONSIDER FROM THE COLLEGE COUNSELING PERSPECTIVE SPECIFICALLY FOR RISING JUNIORS AND SENIORS:

- Keep your options open by keeping your future in mind. For instance, are you considering a career as a physician or an engineer? If so, you might want to make sure to take another year of lab science
(instead of or in addition to an elective) and/or a math that heads towards calculus, instead of statistics. Or, if the colleges you might consider require a language competency for THEIR graduation requirements, would you continue with the same language you’ve taken here or change in college? If you’d keep the same one, then you might want to take more of the same language in high school. If you would want to change your language, then your decision might differ.

- After all of this, if you’re happy with your academic plan, but you or someone else is concerned that the schedule you’d like to take might be questionable from a college’s perspective (i.e. no math or no science or no language senior year), then check in Naviance or the colleges’ websites to see if they are clear about what they require and/or recommend for admission. And, as you approach senior year (or if you are IN your Senior year), if you know of one or two colleges that you are interested in, you can even email or call them to see how they respond to your options or choices. (Simply ask for the counselor of the day—or the “Chicago area representative” if they have one.)

- If you need this kind of advice and cannot get the information from colleges, OR if the information you get is confusing or contradictory, then stop by and ask one of us in the college counseling office, and we’ll do our best to help. A little word of warning though: Remember that although we usually know more about what the colleges will say, you still know more about what is good for YOU. So, it’s not always a quick response or a clear one; but we are happy to talk with you and/or your advisor if and when that would be helpful.

- Juniors registering for senior year and/or seniors if your schedule changes mid-year senior year, you will need to let the colleges you’ve applied to know. So, PLEASE try to really plan ahead with some knowledge & conviction.

FINALLY . . . AT THE END: WHAT WILL THE COLLEGES THINK:

- Simply put, they want you to challenge yourself.

- Your choices should make sense to them—as long as you’ve been considerate and honest with yourself.

- Think about it: Colleges want to know that you are on the upside of learning. Are you choosing classes because you’re excited about the topic? Interested in learning more? And trying to prepare yourself for college-level work? Or are you on the downside, trying to just finish what is necessary for high school and be done? Are you taking classes that someone else said you should take without thinking about it? If someone asked you the reasons for your choices, how would it sound?

- And, yes, generally colleges and universities do expect you to take more than our graduation requirements—but even that varies from school to school. In the end, the requirements for colleges that you decide to apply to should fit YOUR abilities to meet them. Then, it works out!

**************************************************************************

QUESTIONS STUDENTS ASK US EVERY YEAR:

Q: Should I take an easier class if I think I can get a better grade?

A: Colleges hope that students have taken the most challenging courses available to them AND been successful in them. That simply doesn’t always happen. So, the CHOICE is yours (after seeking all of the above advice), and this decision will vary greatly from student to student, course to course, and college to college.

Q: Should I take fewer courses my senior year than ever before, since I will have applications and college visits, etc.? Or should I take more to make colleges think I’m ready for a challenge?
A: NEITHER! You should continue to challenge yourself—and learn and grow with the same intensity that you’ve been comfortable with in the past. If you struggled last year because you took too many classes, then see if you are able to take fewer. If it was too easy for you, then find a way to challenge yourself. Balance is essential.

Q: Is this all very cut and dry? Is there a right or wrong decision in terms of what colleges will think about the classes I took or didn’t take on my schedule each year?

A: Absolutely not! Everyone is different—students are individuals with different strengths, challenges, interests, goals, and levels of preparation. And EVERY COLLEGE looks at applications differently! And the PEOPLE involved in the process of giving advice and evaluating your applications all have different ideas and perspectives and come from differing backgrounds themselves. There are so many factors involved in the process, and it really is impossible to please everyone. So . . . in the end:

GET ADVICE. Consider your options. Then make the most of your education while being true to yourself!
### English (4 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading &amp; Writing Across Genres</td>
<td>Grade 9 (1 year, 1.0 credit)</td>
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<tr>
<td>World Literature</td>
<td>Grade 10 (1 year, 1.0 credit)</td>
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<tr>
<td>American Literature</td>
<td>Grade 11 (1 year, 1.0 credit)</td>
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<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Grades 10-12 (1 sem. 0.5 or 1 year-long credit)</td>
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</tr>
<tr>
<td>Elective</td>
<td>Grades 10-12 (1 sem. 0.5 or 1 year-long credit)</td>
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</table>

### Mathematics (3 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- year</td>
<td>Grade 9-10 (1 year, 1.0 credit)</td>
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<td></td>
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<tr>
<td>2- year</td>
<td>Grade 10-11 (1 year, 1.0 credit)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3- year</td>
<td>Grade 11-12 (1 year, 1.0 credit)</td>
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</tbody>
</table>

### Performing and Visual Arts: Dance, Music, Television & Theater, and Visual Arts (2 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course: Limit of 2 choral music</td>
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<tr>
<td>Elective</td>
<td>Grade 9-12 (varying length and credit)</td>
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</tr>
<tr>
<td>Elective</td>
<td>Grade 9-12 (varying length and credit)</td>
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<tr>
<td>Elective</td>
<td>Grade 9-12 (varying length and credit)</td>
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<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Grade 9-12 (varying length and credit)</td>
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</table>

### History & Social Studies (3 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Themes in World History</td>
<td>Grade 9 (1 year, 1.0 credit)</td>
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<tr>
<td>Modern World History I</td>
<td>Grade 10 (1 semester, 0.5 credit)</td>
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<tr>
<td>Modern World History II</td>
<td>Grade 10 (1 semester, 0.5 credit)</td>
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<td></td>
<td></td>
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<tr>
<td>United States History I</td>
<td>Grade 11 (1 semester, 0.5 credit)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>United States History II</td>
<td>Grade 11 (1 semester, 0.5 credit)</td>
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</table>

### Science (3 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- year</td>
<td>Grade 9 (1 year, 1.0 credit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2- year</td>
<td>Grade 10 (1 year, 1.0 credit)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3- year</td>
<td>Grade 11 (1 year, 1.0 credit)</td>
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</table>

### Integrated Learning & Information Sciences (.5 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Recommended Grade Level (Course Length, Credit)</th>
<th>Sem/Yr Enrolled</th>
<th>Mark</th>
<th>Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Programming I</td>
<td>Grade 9-12 (1 semester, .5 credit)</td>
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</tbody>
</table>

### Reminder: This chart lists only departmental graduation requirements; the minimum cumulative credits for graduation is 20 credits, not including PE.
APPENDIX A

COURSE OVERRIDE FORM

This form is to be filled out by the student and parent(s)/guardian(s) who wish to override a teacher placement.

The student will be registered for the teacher-determined class until the three steps have been followed, approved, and this completed form has been submitted to the registrar.

- All rising 10-12 grade current Parker students should complete this form by June 14, 2019.
- All new-to-Parker Upper School students should complete the form by August 28, 2019 or one week from receiving their placement.

**Step 1:** Email from the student written to the department chairs of the subject area class.

- The letters should state:
  - Requested class
  - Rationale for the requested class
  - Why the student believes this requested class would be a successful transition.

**Step 2:** Meeting or conversation with the student and Parent/Guardian.

- Conversation checklist:
  - The recommendation has been made by a professional team.
  - Overall class experience:
    - Instructors move through content at a pace commensurate with the level of the course.
    - If this is an advanced course request, note that advanced levels require an increased responsibility of work, time, and more accountability on the part of the student.
    - Student and parent(s)/guardian(s) understand that outside help is based on teacher availability.
  - If the student returns to the teacher-determined level, the student is responsible for the work and content missed. The grade received in the override class will follow the student to the teacher-determined class. The grade from the override class will be included in the calculation of the semester grade.
  - Your schedule may drastically change if the override class needs to be changed back to the recommended level. Student initiated changes for year-long classes must occur within the add/drop period.
  - The override class is NOT a trial. We expect the student to be in class the entire year.
○ Tutoring Policy: Outside tutoring is discouraged. However, there are times when a teacher may feel a student requires outside support.
  ■ No parent/guardian or student may engage the services of a tutor outside the school without first talking to the teacher. If a teacher suggests a tutor, the parent still must coordinate efforts with the teacher of record.
  ■ At no time should any student be working with a tutor without informing the teacher. Please read the Tutoring Policy in the handbook for further details.

○ Student & parent(s)/guardian(s) understand that a shift in level will enhance challenge and rigor, and may have a significant impact on a student's overall grade.

**Step 3: Contract**

- A contract signed by the parent and student sign indicates that the above points have been covered and that the points are understood.

<table>
<thead>
<tr>
<th>Subject:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Teacher Placed Course</td>
<td></td>
</tr>
<tr>
<td>• Student Requested Course</td>
<td></td>
</tr>
</tbody>
</table>

“My signature below acknowledges that we have discussed the recommendation with my child’s teacher and our interest in enrolling in a course different than the one recommended. Our signatures indicate that we understand the possible implications mentioned above.”

<table>
<thead>
<tr>
<th>Subject</th>
<th>Printed Name</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td></td>
<td></td>
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<tr>
<td>Parent/Guardian</td>
<td></td>
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<tr>
<td>Advisor</td>
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<tr>
<td>Dept. Chair</td>
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</tbody>
</table>
APPENDIX B

Parker Mathematics Course Offerings Class of 2021 and Beyond

8th Grade
- Algebra 1
- Algebra 1+

Freshmen Year
- Applied Algebra
- Algebra II
- Advanced Algebra II

Sophomore Year
- Geometry
- Advanced Geometry
- Applied Algebra II
- Applied Geometry

Junior & Senior Year
- Applied Topics: Statistics
- Applied Topics: Problem Solving
- Statistics
- Conceptual Calculus
- Calculus
- Advanced Calculus
- Advanced Topics
- Independent Study

Subject to Revision
Appendix C: Music Elective Courses

**Choir:**
- 9th Grade: New Chorale
- 10-12th Grade: *Grape Jam*, Concert Choir

**Band:**
- 9-12th Grade: Concert Band, *Advanced Wind Ensemble*, *Jazz Band*

**Strings:**
- 9-12th Grade: String Orchestra

**Non-Performance:**
- Music Theory
- Creative Songwriting Seminar
- Recording Studio Seminar
- Other

*Additional elective opportunity by audition only*