



COURSE CATALOG
2023-2024
MIDDLE SCHOOL & UPPER SCHOOL

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Academic Policies and Programs

JEWISH LEADERSHIP ACADEMY (JLA) reserves the right to make changes to the curriculum. Coursework offered for the 2023-24 school year will be dependent upon student interest and enrollment.

Academic Grading

Students will receive traditional grades (A-F) for all classes. The grading scale is as follows:	
Numerical Grade	Report Card Grade
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
0-59	F
Class rank and GPA are not reported. All classes are taught at an Honors level or higher. Grade reports will be distributed each quarter/semester.	

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Bright Futures

The Florida Bright Futures Scholarship Program establishes lottery-funded scholarships to reward Florida high school graduates for high academic achievement. Eligibility requirements and award amounts are subject to change pending annual legislative actions. Applications are submitted during the student's Senior year between October 1st and August 31st. Evaluations are made by the state twice during the student's Senior year, with final evaluation taking place in July. Students and parents can check the application status online at the link below. Information and assistance are also available via phone at 1-888-827-2004 and on their [website](#).

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College Planning and Advising

We recognize that the college application process can be confusing. Thus, our role is to provide each and every family with clarity regarding the entire college application process. Our college counseling program provides resources to students and parents throughout their four years in our Upper School, welcoming families to meet with us to discuss questions and concerns at anytime. By teaching students how to put together a college application that reflects their individual strengths and interests, we empower students to take the lead in their college planning. Simultaneously, we provide exceptional support and expertise every step of the way. Whether it's exploring colleges to build a college list, preparing for interviews, or applying for financial aid, we strive to make applying to college both straightforward and stress-free. We are proud of our strong background in highly selective admissions, as well as our extensive connections with admissions representatives and other college counselors throughout the country. We commit to staying on top of the most recent college admissions trends and look forward to sharing this knowledge with our JLA families.

Course Designation/Class Rank/Grade Point Average

Honors (H): Honors level coursework provides Middle School and Upper School students with challenging content taught at a faster pace and deeper depth than a standard Middle or High School curriculum.

Accelerated Honors (AC): Middle School and Upper School courses labeled as Accelerated Honors are our highest pre-college, pre-competition level coursework. In the area of mathematics, AC represents at least one grade level beyond the standard middle or high school curriculum.

Advanced (AD): Upper School courses labeled as Advanced are taught at a college level. These classes are on par with an introductory level course at a selective college. Advanced classes are exceptionally challenging and move at a rapid pace.

Upper School students will not earn college credit with AD labeled coursework.

AoPS: Mathematics classes labeled as AoPS are competition level courses.

CLASS RANK: JLA does not rank its students.

GRADE POINT AVERAGE: JLA does not calculate an official GPA for students, nor do we calculate rank-in-class. Thus, Advanced, Accelerated, and Honors courses receive no additional "weight" in a GPA. When students apply to college, we will send their official transcript, displaying all the courses they've taken with their grades, along with our School Profile and comprehensive

recommendation letters to help colleges better understand our school and a student's strengths in the context of our academic program.

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Course Credit Policies

STANDARDS: The minimum number of courses required for each student is 8 per semester. Grades earned for courses beyond 8 will appear on the report card/transcript. Any student who received a semester grade of F at either the end of the first or the second semesters is expected to remediate the grade. The student must earn the missing credits prior to the subsequent school year. 33 credits are required before the student may begin their senior year.

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Course Selection and Placement

Course selection for each school year begins shortly after the beginning of the second semester. Students will receive information regarding requirements, elective opportunities, and registration procedures. Student placement depends on academic history, standardized test scores, teacher recommendations, and departmental review. Students receive an approved, preliminary course list before the end of the year. Students receive their final schedule with teacher assignments in late summer.

Student and/or parent-initiated schedule change requests are allowed during specific times of the school year. Requests to change a course selected during the scheduling season for the upcoming school year are permitted through the third week of classes. For second-semester courses, course changes are allowed through the third week of the second semester. All schedule change forms require a parent signature, counselor signature, and administrative approval. Depending on the nature of the change, signatures from the department chairperson and the student's teacher for that subject may be required.

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Global Online Academy (GOA)

Global Online Academy is renowned for offering courses that allow students to take deep dives in a variety of disciplines. JLA makes GOA courses available to its students as a means of broadening their opportunities to enrich their core curriculum with rigorous electives in areas of interest to them. GOA courses earn graduation credit and are included on transcripts.

<https://globalonlineacademy.org/> Courses can be taken during the elective period or after school hours. In addition, students who demonstrate the ability to do coursework that exceeds the highest level offered for their grade at JLA, may, with the permission of the administration, take a course through GOA in lieu of a JLA course.

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Center for Talented Youth (CTY) at Johns Hopkins University

CTY is an online academic program focused on challenging the very brightest minds from across the country. Admission to the program is separate from admission to JLA and is highly selective. CTY courses earn graduation credit and are included on transcripts. Courses can be taken during the elective period or after school hours. Like GOA, CTY courses provide students with the opportunity to choose rigorous elective courses not offered at JLA. In addition, students who demonstrate the ability to do coursework that exceeds the highest level

offered for their grade at JLA, may, with the permission of the administration, take a course through CTY in lieu of a JLA course.

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Course Forgiveness Program

Forgiveness Rule

A student who significantly under performs in a particular class will have the opportunity to remediate their grade in accordance with the following guidelines:

- The student must remediate the course for forgiveness within the year that it occurs.
- If a student repeats a course, then the forgiven course is awarded no credit toward the 44 credits required for graduation.
- The forgiven course must remain on the student's transcript, but the higher grade received in the retaken course is also indicated.
- The opportunity for course forgiveness must be limited to replacing a semester grade of C-, D+, D, or F with a grade of C or higher earned subsequently in the same or comparable course.
- All coursework requires a counselor signature, the department chair signature, and administrative approval.

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JLA grade forgiveness allows a student to retake a core class for a higher grade. Through the forgiveness policy, a student may retake a class to earn a higher grade if he/she earned a grade of C- or below.

Summer School Coursework

Students may need to remediate a credit or make up coursework during the summer months. Students are permitted to complete this coursework through FLVS or Global Online Academy (taken at the students own expense when taken for remediation). All coursework requires a counselor signature, the department chair signature, and administrative approval.

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Credit/Promotion Requirements

Promotion Requirements for the Middle School

<u>Years</u>	<u>Subject</u>
3	ENGLISH*
3	MATHEMATICS*
3	WORLD LANGUAGE (HEBREW)*
3	SCIENCE*
3	SOCIAL SCIENCES (CIVICS REQUIRED)*
3	PHYSICAL CONDITIONING
3	ELECTIVES
3	JUDAIC STUDIES ALEF
3	JUDAIC STUDIES BET
3	TEFILLAH (PRAYER)
3	NESHER PROJECT
3	SERVICE ENTREPRENEURSHIP PROGRAM (SEP)
.5	CAREER/ED PLANNING (DURING ADVISORY)

= 36.5 TOTAL REQUIREMENTS

**Middle School level or higher*

6TH GRADE	7TH GRADE	8TH GRADE
1 ENGLISH	1 ENGLISH	1 ENGLISH
1 MATHEMATICS	1 MATHEMATICS	1 MATHEMATICS
1 WORLD LANGUAGE	1 WORLD LANGUAGE	1 WORLD LANGUAGE
1 JUDAICS BET	1 JUDAICS BET	1 JUDAICS BET
1 SCIENCE	1 SCIENCE	1 SCIENCE
1 SOCIAL SCIENCE	1 SOCIAL SCIENCE	1 SOCIAL SCIENCE
1 PHYSICAL EDUCATION	1 PHYSICAL EDUCATION	1 PHYSICAL EDUCATION
1 ELECTIVE	1 ELECTIVE	1 ELECTIVE
1 JUDAIC STUDIES ALEF	1 JUDAIC STUDIES ALEF	1 JUDAIC STUDIES ALEF
1 TEFILLAH	1 TEFILLAH	1 TEFILLAH
1 NESHER PROJECT	1 NESHER PROJECT	1 NESHER PROJECT
1 SEP (SERVICE ENTREPRENEURSHIP PROGRAM)	1 SEP (SERVICE ENTREPRENEURSHIP PROGRAM)	1 SEP (SERVICE ENTREPRENEURSHIP PROGRAM)
		.5 CAREER/ED PLANNING
12 REQUIREMENTS	12 REQUIREMENTS	12.5 REQUIREMENTS

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Graduation Requirements of the Upper School

Credits	Subject
4	ENGLISH
4	JUDAIC STUDIES ALEF
4	MATHEMATICS
2	WORLD LANGUAGE (HEBREW)
2	JUDAICS BET
3	SCIENCE
3	SOCIAL SCIENCES
4	PHYSICAL CONDITIONING (PERSONAL HEALTH & FITNESS)
6	ELECTIVES
4	TEFILLAH (PRAYER)
4	NESHER
4	SEP (Service Entrepreneurship Program)

44 = TOTAL CREDIT HOURS

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
1 ENGLISH	1 ENGLISH	1 ENGLISH	1 ENGLISH
1 JUDAIC STUDIES ALEF	1 JUDAIC STUDIES ALEF	1 JUDAIC STUDIES ALEF	1 JUDAIC STUDIES ALEF
1 MATH	1 MATH	1 MATH	1 MATH
.5 WORLD LANG	.5 WORLD LANG	.5 WORLD LANG	.5 WORLD LANG
.5 JUDAIC BET	.5 JUDAIC BET	.5 JUDAIC BET	.5 JUDAIC BET
1 SCIENCE	1 SCIENCE	1 SCIENCE	1 ELECTIVE
1 PC/HEALTH	1 PC/HEALTH	1 PC/HEALTH	1 PC/HEALTH
1 TEFILLAH	1 TEFILLAH	1 TEFILLAH	1 TEFILLAH
1 SOCIAL SCIENCE	1 SOCIAL SCIENCE	1 ELECTIVE	1 SOCIAL SCIENCE
1 NESHER PROJECT	1 NESHER PROJECT	1 NESHER PROJECT	1 NESHER PROJECT
.5 ELECTIVE	.5 ELECTIVE	.5 ELECTIVE	.5 ELECTIVE
.5 ELECTIVE	.5 ELECTIVE	.5 ELECTIVE	.5 ELECTIVE
1 SERVICE ENTREPRENEURSHIP	1 SERVICE ENTREPRENEURSHIP	1 SERVICE ENTREPRENEURSHIP	1 SERVICE ENTREPRENEURSHIP
11 CREDITS	11 CREDITS	11 CREDITS	11 CREDITS

Level Promotion Policy

Level promotion (e.g., Honors to Accelerated) is determined by a multistep process:

1. Students must earn a first semester grade of 90% or higher.
2. Students must request a teacher recommendation to sit for the Spring Placement Exam.
3. Students must score 85% or higher on the Spring Placement Exam.
4. Students must earn a score of 85% or higher in course co-requisites for the class in which they are requesting promotion.
5. Students must earn a final score of 85% or higher in other course prerequisites for the class in which they are requesting promotion.
6. If the student still has a 90% or higher as a course average at the end of the second semester, has done all of the above steps successfully, and demonstrates the effort necessary for more challenging coursework, then the student will be considered.

Course Descriptions

Humanities and the Arts

History

[History](#) · [English](#) · [Visual Arts](#) · [Dance](#) · [Music](#) · [Spanish](#) · [Science](#) · [Computer Science](#) · [Engineering](#) · [Math](#) · [Judaics](#) · [Hebrew](#) · [PC](#) · [Friday Academic Programs](#)
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6th grade History: Globetrotters: Geography and Ancient Civilizations

Level: Honors. Required for all students in grade 6.

Course code: JLA code HIS-100, FLDOE 2103010

Description: The goal of this course is to build a foundation in geography, critical thinking, and historical skills that students will need for the rest of their academic career. Students will examine maps, analyze primary sources, compare and contrast cultures and civilizations, and uncover cultural and political relevance that impacts their world in the 21st century. Following a survey of Ancient Civilizations from Sumer to Rome and including other regions of the world, students will examine each civilization's geography, political structures, religious beliefs, economic and trade systems, as well as their cultural or artistic artifacts.

Text: History Alive! The Ancient World, TCI

Credits: 1 (annual)

Prerequisites: 5th grade history

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7th Grade History: Puritans to Presidents

Level: Honors. Required for all students in grade 7.

Course code: JLA code HIS-110, FLDOE 2100020

Description: This course takes a look at American History through a variety of themes and lenses. The course begins by examining the factors that weighed into the decisions made by the Founding Fathers and the struggle to determine whether the government of the United States should be more centralized or decentralized. The second theme dives into the struggles of different minority groups (women, immigrants, Native Americans, etc.) to achieve equity in American society. The second semester starts with an examination of the role of the United States in the world. Students will learn about the different wars and conflicts throughout United States' history and examine the role of the United States entering and following the conflicts. The final theme of the year comes full circle and involves a look at human rights in the United States and whether or not the government has lived, and is living, up to the ideals stated during the founding of the country as studied at the beginning of the year. Students will focus on developing key reading skills and writing skills (thesis development, essay structure) as we engage with a range of primary and secondary historical materials.

Text: History Alive! The United States Through Modern Times, TCI

Credits: 1 (annual)

Prerequisites: 6th grade history

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9th Grade History: Our Trek Through Time Honors (World History)

Level: Honors. Required for all students in grade 9.

Course code: JLA code HIS-140, FLDOE 2109310

Description: *Our Trek through Time* covers the period from the Middle Ages to the present. Students will analyze various peoples, states, and societies from a political, cultural, economic, and social lens. Primary and secondary source materials will be used to better understand the voices of the people throughout time. Common threads include the role of religion and wisdom traditions, nationalism, and trade and interaction in forming the world. Students will focus on developing key reading skills (viewpoint identification, assessing evidentiary value) and writing skills (thesis development, essay structure) as we engage with a range of primary and secondary historical materials.

Text: Worlds Together, Worlds Apart, Norton

Credits: 1 (annual)

Prerequisites: 8th grade civics and economics

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9th Grade History: Our Trek Through Time Accelerated (World History)

Level: Accelerated. Required for all students in grade 9.

Course code: JLA code HIS-141, FLDOE 2109320

Description: *Our Trek through Time* covers the period from the Middle Ages to the present. Students will analyze various peoples, states, and societies from a political, cultural, economic, and social lens. Primary and secondary source materials will be used to better understand the voices of the people throughout time. Common threads include the role of religion and wisdom traditions, nationalism, and trade and interaction in forming the world. Students will focus on developing key reading skills (viewpoint identification, assessing evidentiary value) and writing skills (thesis development, essay structure) as they engage with a range of primary and secondary historical materials. The accelerated level course will cover mostly the same content as the honors course but will go more in depth and will move at a faster pace.

Text: Worlds Together, Worlds Apart, Norton

Credits: 1 (annual)

Prerequisites: 8th grade civics and economics. To be considered for this course, students must be recommended by their previous history teacher.

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10th Grade History: American History Advanced

Level: Advanced. Required for all students in grade 10.

Course code: JLA code HIS-202, FLDOE 2100320

Description: This course offers a broad college-level survey of the development of North American society from the founding of Indigenous nations to the present. Thematically organized, this course examines the way that many peoples sought to pursue freedom in North America, and in particular examines the tensions between economic freedom, personal liberty, and the obligations the individual has to the state. While the content is structured around political and social history, considerable attention is also paid to economics, geography, religion, sociology, literature, music, visual arts, and popular culture in American history. Students will focus on developing key reading skills (viewpoint identification, assessing evidentiary value) and writing skills (thesis development, essay structure) as we engage with a range of primary and secondary historical materials. Selective use is made of films, maps, and video programs. Students undertake a variety of assessments (projects, debates, discussions, mock trials, essays, etc.) to broaden their understanding of American history.

Text: Give Me Liberty! An American History, Norton

Credits: 1 (annual)

Prerequisites: 9th grade History

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English

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English 6: Heroes and Heroines Honors

Level: Honors. Required for all students in grade 6.

Course code: JLA code ENG-100, FLDOE 1001010

Description: *English 6: Heroes and Heroines* will provide the foundations for students to become strong English students for the rest of their seven years at JLA. Students will read a variety of texts that examine the theme, starting with mythology and epic poetry, and then continuing into other genres and more contemporary novels. Much attention will be paid to heroes, villains, and ordinary people overcoming seemingly insurmountable obstacles. Students will examine the difference between good and evil and explore the extent to which ordinary people can be heroes. Ultimately, though, the goal of the course is to focus on helping students become critical readers, writers, and thinkers. It will provide the essential skills of grammar, vocabulary, annotating, and writing as a way of thinking and self-expression. The writing projects they do in this course will be in a variety of modes ranging from creative, personal, and analytical. There will be a degree of thematic overlap with their history course on Ancient Civilizations.

Texts: Texts might include but are not limited to *World Mythology for Beginners*, *The Iliad and the Odyssey*, *Nimona*, *The Boys Who Challenged Hitler: Knud Pederson and the Churchill Club*, *I am Malala*, *Born a Crime*, and *Refugee*.

Credits: 1 (annual)

Prerequisites: 5th grade English

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English 6: Heroes and Heroines Accelerated

Level: Accelerated. Required for all students in grade 6.

Course code: JLA code ENG-101, FLDOE 1001020

Description: *English 6: Heroes and Heroines* will provide the foundations for students to become strong English students for the rest of their seven years at JLA. Students will read a variety of texts that examine the theme, starting with mythology and epic poetry, and then continuing into other genres and more contemporary novels. Much attention will be paid to heroes, villains, and ordinary people overcoming seemingly insurmountable obstacles. Students will examine the difference between good and evil and explore the extent to which ordinary people can be heroes. Ultimately, though, the goal of the course is to focus on helping students become critical readers, writers, and thinkers. It will provide the essential skills of grammar, vocabulary, annotating, and writing as a way of thinking and self-expression. The writing projects they do in this course will be in a variety of modes ranging from creative, personal, and analytical. There will be a degree of thematic overlap with their history course on Ancient Civilizations. The accelerated course will move at a faster pace and go more in depth than the honors level course.

Texts: Texts might include but are not limited to *World Mythology for Beginners*, *The Iliad and the Odyssey*, *Nimona*, *The Boys Who Challenged Hitler: Knud Pederson and the Churchill Club*, *I am Malala*, *Born a Crime*, and *Refugee*.

Credits: 1 (annual)

Prerequisites: 5th grade English. Students will be placed in the advanced course at the discretion of the department.

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English 7: Fiction and Fantasy Honors

Level: Honors. Required for all students in grade 7.

Course code: JLA code ENG-110, FLDOE 1001040

Description: *English 7: Fiction and Fantasy* continues to mold students into strong readers, writers, and thinkers. As with English 6, there will be room for thematic overlap with their history course. While they look at the Founding Fathers and their role in setting up the government in history class, students in English 7 study the essence of human nature, whether we are fundamentally civilized or savage and whether we need rules or a government to live together peacefully. From there, the course examines what a good society looks like and what a government should provide for its citizens. Some of the other units look at human rights and identity through a variety of genres of literature. English 7 will continue to develop students' reading, writing, speaking, and listening skills with an emphasis on drafting and revising their work as well as on grammar and vocabulary.

Texts: Texts might include but are not limited to *Lord of the Flies*, *The Giver*, *The House on Mango Street*, *America Street*, *My Basmati Bat Mitzvah*, *March: Book Two*, and *A Wreath for Emmett Till*

Credits: 1 (annual)

Prerequisites: 6th grade English

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English 7: Fiction and Fantasy Accelerated

Level: Accelerated. Required for all students in grade 7.

Course code: JLA code ENG-111, FLDOE 1001050

Description: *English 7: Fiction and Fantasy* continues to mold students into strong readers, writers, and thinkers. As with English 6, there will be room for thematic overlap with their history course. While they look at the Founding Fathers and their role in setting up the government in history class, students in English 7 study the essence of human nature, whether we are fundamentally civilized or savage and whether we need rules or a government to live together peacefully. From there, the course examines what a good society looks like and what a government should provide for its citizens. Some of the other units look at human rights and identity through a variety of genres of literature. English 7 will continue to develop students' reading, writing, speaking, and listening skills with an emphasis on drafting and revising their work as well as on grammar and vocabulary. The accelerated course will move at a faster pace and go more in depth than the honors level course.

Texts: Texts might include but are not limited to *Lord of the Flies*, *The Giver*, *The House on Mango Street*, *America Street*, *My Basmati Bat Mitzvah*, *March: Book Two*, and *A Wreath for Emmett Till*

Credits: 1 (annual)

Prerequisites: 6th grade English. Students will be placed in the advanced course at the discretion of the department.

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English 9: Contributing Your Verse Honors (Fall)

Level: Honors. Required for all students in grade 9.

Course code: JLA code ENG-130, FLDOE 1001310

Description: This required course provides the necessary foundation for underclassmen in the art and mechanics of writing. Although literature will not be the primary focus, students might read short texts as models of the genres of writing that they will practice over the course of the semester. In addition to the literary analysis essay, the course will cover a wide range of units, including but not limited to writing poetry, fiction, creative nonfiction, personal essays, and possibly screenplays. Moreover, students will receive a solid foundation in grammar and mechanics. The goal of this course is not only to prepare them for the rest of their high school writing career, but, more importantly, to give them an appreciation for writing as a form of self-expression.

Texts: Short mentor texts will be determined by the teacher in order to provide examples of the genres being studied. Reference texts might include *Essential Literary Terms* and *Elements of Style*, in addition to a grammar workbook.

Credits: .5 (semester)

Prerequisites: 8th grade English.

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English 9: Graphic Novels and Short Stories Honors (Spring)

Level: Honors.

Course code: JLA code ENG-150, FLDOE 1001310

Description: This course will study the genre of graphic novels as a form of literature. Beginning with Scott McCloud's text, *Understanding Comics: The Invisible Art*, students will learn the academic vocabulary of analyzing graphic novels. Many of the graphic novels in this course will tell coming of age stories in a visual way. Finally, students might read a novel and its graphic novel equivalent in order to analyze, compare, and contrast the textual vs visual approaches to telling the same story. Additionally, students will read and study short stories in conjunction with their graphic novels.

Texts: Texts might include any of the following: *Maus*, *March: Book Two*, *Persepolis*, *They Called Us Enemy*, *Good Talk*, *When I Grow Up: The Lost Autobiographies of Six Yiddish Teenagers*.

Credits: .5 (semester)

Prerequisites: Contributing Your Verse, Fall Semester of 9th Grade

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English 9: Contributing Your Verse Accelerated (Fall)

Level: Accelerated. Required in the fall for all students in grade 9. In the year 2023-2024, required in the fall for all students in grade 10.

Course code: JLA code ENG-131, FLDOE 1001320

Description: This required course provides the necessary foundation for underclassmen in the art and mechanics of writing. Although literature will not be the primary focus, students might read short texts as models of the genres of writing that they will practice over the course of the semester. In addition to the literary analysis essay, the course will cover a wide range of units, including but not limited to writing poetry, fiction, creative nonfiction, personal essays, and possibly screenplays. Moreover, students will receive a solid foundation in grammar and mechanics. The goal of this course is not only to prepare them for the rest of their high school writing career, but, more importantly, to give them an appreciation for writing as a form of self-expression. The accelerated course will move at a faster pace and go more in depth than the honors level course.

Texts: Short mentor texts will be determined by the teacher in order to provide examples of the genres being studied. Reference texts might include *Essential Literary Terms* and *Elements of Style*, in addition to a grammar workbook.

Credits: .5 (semester)

Prerequisites: 8th grade English. Students will be placed in the accelerated course at the discretion of the department.

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English 9: Coming of Age Accelerated (Spring)

Level: Accelerated.

Course code: JLA code ENG-141, FLDOE 1001320

Description: This course will examine one of the most powerful themes for adolescents and adult readers alike: the painful, beautiful, and meaningful process that everyone has to go through to

grow up. Students will study the hallmarks of a bildungsroman and read both classic and contemporary examples of coming of age novels. They will also compare fiction from non-fiction texts to discover some of the universal truths of growing up. Along the way, students will continue to hone the crafts of critical thinking, reading, and writing.

Texts: Texts might include but are not limited to *Jane Eyre*, *The Catcher in the Rye*, *The Hate U Give*, *The Glass Castle*, *Our Town*, *When I Was Puerto Rican*, and *This Boy's Life*.

Credits: .5 (semester)

Prerequisites: Contributing Your Verse, Fall Semester of 9th Grade. Students will be placed in the accelerated course at the discretion of the department.

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English 10: Contributing Your Verse Accelerated (Fall)

Level: Accelerated - Required in the fall of 2023

Course code: JLA code ENG-131, FLDOE 1001350

Description: This required course provides the necessary foundation for underclassmen in the art and mechanics of writing. Although literature will not be the primary focus, students might read short texts as models of the genres of writing that they will practice over the course of the semester. In addition to the literary analysis essay, the course will cover a wide range of units, including but not limited to writing poetry, fiction, creative nonfiction, personal essays, and possibly screenplays. Moreover, students will receive a solid foundation in grammar and mechanics. The goal of this course is not only to prepare them for the rest of their high school writing career, but, more importantly, to give them an appreciation for writing as a form of self-expression.

Texts: Short mentor texts will be determined by the teacher in order to provide examples of the genres being studied. Reference texts might include *Essential Literary Terms* and *Elements of Style*, in addition to a grammar workbook.

Credits: .5 (semester)

Prerequisites: Contributing Your Verse and a 9th grade elective

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English 10: The American Dream: Promise or Illusion? (Spring)

Level: Accelerated - Required course in the spring of 2024

Course code: JLA code ENG-161, FLDOE 1001350

Description: The goal of this course is to expose students to an overview of some of the foundational texts and the arc of American literature as well as the essence of American identity as it pertains to the topic of the American Dream. Students will interrogate the origins of the American Dream, how authors have examined and critiqued it, and who has succeeded and failed in the pursuit of it. It will conclude with their own research paper about what factors contribute to the success or failure of the American Dream, and for whom it applies.

Texts: Texts will include a variety of excerpts from early American literature including colonial letters, Benjamin Franklin's *Autobiography*, *Narrative of the Life of Frederick Douglass*, Transcendentalist essays, and short stories. Full-length texts might include some of the following but are not limited to *The Great Gatsby*, *Death of Salesman*, *A Raisin in the Sun*, *Fences*, and *Nickel and Dimed*.

Credits: .5 (semester)

Prerequisites: Contributing Your Verse and a 9th grade elective.

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Journalism (Newspaper)- Option 9 Elective (Mondays and Wednesdays)

Level: Honors. Open to all students

Course code: JLA code ENG-900, FLDOE 1006300

Description: This course gives students a multifaceted understanding of the contemporary news media by combining media studies with authentic journalistic practice. Students gain the opportunity to hone their writing skills by producing articles for the school newspaper in a variety of genres, including hard news, features, opinion pieces, sports coverage, and arts criticism. At the same time, class discussion focuses on the role of the media in contemporary society, covering such topics as journalism ethics, notable case studies and controversies, and the impact of digital platforms on the media landscape. Throughout the course, students learn to write vivid, lively stories for an authentic audience, practicing a number of key skills that are both essential to journalism and translatable to other fields: reporting and fact-finding, interviewing, story structure, effective revision, etc. As the editors of their own paper, students also learn how to use relevant software and tools to design and layout their articles for publication.

Credits: .5 (year long)

Prerequisites: None

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[Yearbook - Option 9 Elective \(Mondays and Wednesdays\)](#)

Level: Honors. Open to all students

Course code: JLA code ENG-910, FLDOE 1006300

Description: Students will create JLA's first-ever yearbook in this Option 9 course. Throughout the program, students will decide on a theme and template for the yearbook and then use an online layout program to input pictures and blurbs to capture the memories from this historic year on campus. The yearbook company has an online portal that is very similar to a social media page that enables students to easily drag and drop images, pictures, and text boxes. Students will even be able to make their own personalized pages that will only be featured in their yearbook copies.

Credits: .5 (year long)

Prerequisites: None

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[Visual Arts](#)

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[Middle School Artists' Studio 1](#)

Level: Honors

Course code: JLA code ART-100, FLDOE 101100

Description: *The Artists' Studio* is open to artists of any level. This course can be taken multiple times and takes the place of media-based classes such as Draw & Paint and Sculpture & Ceramics. Students in this course work independently or in small groups to complete self-paced units of skill development across the eight main art media. Units of study focus on thinking and behaving like a working artist. Students are encouraged to use a wide variety of materials and cover a range of subject matter. While technical artistic skills are practiced and required in this course, emphasis is put on problem solving, exploring, and showing growth. All units require a high degree of independent work and decision making. Students are encouraged and expected to connect unit topics and ideas with their own ideas and life experiences. Unit topics build on each other and concepts become more complex as artists develop more professional art skills.

Credits: .5 (semester)

Prerequisites: None. Open to all students, especially those who are new to art.

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Middle School Artists' Studio 2

Level: Honors.

Course code: JLA code ART-110, FLDOE 101110

Description: *The Artists' Studio* is open to artists of any level. This course can be taken multiple times and takes the place of media-based classes such as Draw & Paint and Sculpture & Ceramics. Students in this course work independently or in small groups to complete self-paced units of skill development across the eight main art media. Units of study focus on thinking and behaving like a working artist. Students are encouraged to use a wide variety of materials and cover a range of subject matter. While technical artistic skills are practiced and required in this course, emphasis is put on problem solving, exploring, and showing growth. All units require a high degree of independent work and decision making. Students are encouraged and expected to connect unit topics and ideas with their own ideas and life experiences. Unit topics build on each other and concepts become more complex as artists develop more professional art skills.

Credits: .5 (semester)

Prerequisites: Artists' Studio 1, or students who have previously taken art.

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Upper School Artists' Studio 1

Level: Honors.

Course code: JLA code ART-130, FLDOE 101300

Description: *The Artists' Studio* is open to artists of any level. This course can be taken multiple times and takes the place of media-based classes such as Draw & Paint and Sculpture & Ceramics. Students in this course work independently or in small groups to complete self-paced units of skill development across the eight main art media. Units of study focus on thinking and behaving like a working artist. Students are encouraged to use a wide variety of materials and cover a range of subject matter. While technical artistic skills are practiced and required in this course, emphasis is put on problem solving, exploring, and showing growth. All units require a high degree of independent work and decision making. Students are encouraged and expected to connect unit topics and ideas with their own ideas and life experiences. Unit topics build on each other and concepts become more complex as artists develop more professional art skills.

Credits: .5 (semester)

Prerequisites: None. Open to all students, especially those who have never taken art.

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Upper School Artists' Studio 2

Level: Artists' Studio 1, or students who have previously taken art.

Course code: JLA code ART-140, FLDOE 101310

Description: *The Artists' Studio* is open to artists of any level. This course can be taken multiple times and takes the place of media-based classes such as Draw & Paint and Sculpture & Ceramics. Students in this course work independently or in small groups to complete self-paced units of skill development across the eight main art media. Units of study focus on thinking and behaving like a working artist. Students are encouraged to use a wide variety of materials and cover a range of subject matter. While technical artistic skills are practiced and required in this course, emphasis is put on problem solving, exploring, and showing growth. All units require a high degree of independent work and decision making. Students are encouraged and expected to connect unit topics and ideas with their own ideas and life experiences. Unit topics build on each other and concepts become more complex as artists develop more professional art skills.

Credits: .5 (semester)

Prerequisites: Artists' Studio 1, or those who have previously taken art.

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Middle and Upper School Artists' Studio- Option 9 (Mondays and Wednesdays)

Level: Honors - open to all students

Course code: JLA code ART-900, FLDOE 101300

Description: *The Artists' Studio* is open to artists of any level. This course can be taken multiple times and takes the place of media-based classes such as Draw & Paint and Sculpture & Ceramics. Students in this course work independently or in small groups to complete self-paced units of skill development across the eight main art media. Units of study focus on thinking and behaving like a working artist. Students are encouraged to use a wide variety of materials and cover a range of subject matter. While technical artistic skills are practiced and required in this course, emphasis is put on problem solving, exploring, and showing growth. All units require a high degree of independent work and decision making. Students are encouraged and expected to connect unit topics and ideas with their own ideas and life experiences. Unit topics build on each other and concepts become more complex as artists develop more professional art skills.

Credits: .25 (semester)

Prerequisites: None.

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Video Production (Middle School only)

Level: None- open to all upper school students

Course code: JLA code ART-200, FLDOE 107410

Description: In this year-long course, students will become acquainted with the technical and aesthetic concepts involved in successful video production. Students will learn pre-production skills, video production structure and aesthetic principles, camera operation and recording procedures, lighting and audio techniques, and fundamental editing conventions and styles.

Credits: .5 (Semester)

Prerequisites: None.

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Video Production (Upper School only)

Level: None- open to all upper school students

Course code: JLA code ART-210, FLDOE 107410

Description: In this year-long course, students will become acquainted with the technical and aesthetic concepts involved in successful video production. Students will learn pre-production skills, video production structure and aesthetic principles, camera operation and recording procedures, lighting and audio techniques, and fundamental editing conventions and styles.

Credits: .5 (Semester)

Prerequisites: None.

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Option 9 Video Production (Mondays and Wednesdays)

Level: None- open to all students.

Course code: JLA code ART-920, FLDOE 107410

Description: In this semester-long option 9 course, students will become acquainted with the technical and aesthetic concepts involved in successful video production. Students will learn pre-production skills, video production structure and aesthetic principles, camera operation and recording procedures, lighting and audio techniques, and fundamental editing conventions and styles.

Credits: .25 (semester)

Prerequisites: None.

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Dance

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Intro to Dance

Level: MS - open to all middle school students.

Course code: JLA code DAN-100, FLDOE 0300000

This introductory course provides students with the physical study of various dance techniques with an emphasis on historical and cultural relevance, critical evaluation, artistic process and performance. Students will be exposed to a variety of movement styles and vocabulary: most likely ballet, modern, and jazz. This course requires specific equipment: dance shoes (ballet and/or jazz shoes).

Credits: .5 (semester)

Prerequisites: None.

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Dance Technique 1

Level: None- open to all upper school students.

Course code: JLA code DAN-130, FLDOE 0300310

This introductory course provides students with the physical study of various dance techniques: ballet, jazz, modern dance/contemporary, world dances, and dance improvisation. With each rotating series of topics, students will investigate the historical roots, important dance works, and discuss the relevance to the student's current studies. The course will begin with dance conditioning elements and will culminate with choreography and performance for the student to synthesize, create and perform a solo. This course requires specific equipment: a mini-loop band, a resistance band, an exercise mat and dance shoes (ballet and/or jazz shoes).

Credits: .5 (semester)

Prerequisites: None.

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Option 9 Dance (Mondays and Wednesdays)

Level: None- open to all students.

Course code: JLA code DAN-900, FLDOE 0300310

This introductory course provides students with the physical study of various dance techniques: ballet, jazz, modern dance/contemporary, world dances and dance improvisation. With each rotating series of topics, students will investigate the historical roots, important dance works, and discuss the relevance to the student's current studies. This course is an additional option for students who want to pursue more dance opportunities or are unable to take the course during the school day.

Credits: .25 (semester)

Prerequisites: None.

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Middle School Beginning Groove Workshop

Level: None- open to all upper school students.

Course code: JLA code MUS-200, FLDOE 1303200

The goal of this course is to provide students the opportunity to learn a musical instrument or expand their current musical skills through the exploration of various genres of popular music using the Modern Band approach. In this course, students will build strong foundational skills in instrumental/vocal technique, music literacy, and a general knowledge of the characteristics of popular music from the 1950's to the present day. The course will culminate with a student recording session/performance demonstrating their musical abilities.

Credits: .5 (Semester)

Prerequisites: None.

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Middle School Intermediate Groove Workshop

Level: None- open to all upper school students.

Course code: JLA code MUS-210, FLDOE 1303210

The goal of this course is to continue building students' musical skills through the exploration of various genres of popular music using the Modern Band approach. Students will strengthen their competence in instrumental/vocal technique and music literacy through the study/performance of various American popular music genres including Rock 'n' Roll, Blues, Soul, Motown, Funk, Country, Bluegrass, Folk, Pop, and Dance Music, while learning about the ties which this music holds to American history and culture. The course will culminate with a student recording session/performance.

Credits: .5 (semester)

Prerequisites: Students will be placed in the appropriate level at the discretion of the music teacher.

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Upper School Beginning Groove Workshop

Level: None- open to all upper school students.

Course code: JLA code MUS-230, FLDOE 1305400

In this course, students will continue building their skills in instrumental/vocal technique and music literacy through the study/performance of various American popular music genres including Hip-Hop, Contemporary R&B, and popular Latin Music, while learning about the ties which this music holds to American history and culture. The course will offer students the opportunity to form their own small musical ensembles and explore musical genres of their choice utilizing the foundational skills gained and strengthened in Groove Workshop 1 and 2. In addition, students will begin learning improvisation and song writing in order to create, perform, and record their own music with their peers.

Credits: .5 (semester)

Prerequisites: Students will be placed in the appropriate level at the discretion of the music teacher.

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Upper School Intermediate Groove Workshop

Level: None- open to all upper school students.

Course code: JLA code MUS-240, FLDOE 1305410

The goal of this course is to equip students with the tools necessary to become more independent musicians and continue building competence and artistry through musical performance, composition, and exploration of various musical genres in collaborative small ensembles. Guided by their instructor, students will form their own ensembles based on their musical tastes and interests (i.e. jazz combo, rock band, Klezmer ensemble, etc). The course will emphasize collaboration, creativity, artistic interpretation, arranging, improvisation, and songwriting.

Credits: .5 (semester)

Prerequisites: Students will be placed in the appropriate level at the discretion of the music teacher.

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[Option 9 Groove Workshop \(Mondays and Wednesdays\)](#)

Level: None- open to all students.

Course code: JLA code MUS-900, FLDOE 1305400

This course is designed for students who either want more music opportunities than what they get during the day, or for those who are unable to fit music into their schedule. The goal of this course is to equip students with the tools necessary to become more independent musicians and continue building competence and artistry through musical performance, composition, and exploration of various musical genres in collaborative small ensembles. Guided by their instructor, students will form their own ensembles based on their musical tastes and interests (i.e. jazz combo, rock band, Klezmer ensemble, etc). The course will emphasize collaboration, creativity, artistic interpretation, arranging, improvisation, and songwriting.

Credits: .25 (semester)

Prerequisites: Students will be placed in the appropriate level at the discretion of the music teacher.

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[Upper School Digital Music](#)

Level: None- open to all upper school students.

Course code: JLA code MUS-250, FLDOE 1304300

In this course, students will learn how to create music digitally as opposed to traditionally with instruments. Under the direction of a teacher who has worked in the field, students will learn about the technology needed to produce and record music in a real recording studio. Students will record the music that the students in Groove Workshop will perform, and they will create original digital music on their computers. Through this course, students will have an opportunity to record their own music and possibly even publish it on Spotify, Apple Music, Tidal, Youtube, and other streaming platforms.

Credits: .5 (semester)

Prerequisites: Students will be placed in the appropriate level at the discretion of the music teacher.

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[Option 9: Intro to Spanish \(Mondays and Wednesdays\)](#)

Level: None- open to middle and upper school students.

Course code: JLA code SPN-900

Description: This course will provide a fun and conversational introduction to the Spanish language (levels A1 and A2 according to the International Common European Framework of Reference for Languages set out by the Council of Europe in 2001) by way of learning about the cultures of the various Spanish-speaking countries and cultural elements of some Spanish-speaking communities in the United States and Canada. Each unit will focus on different cultural aspects of various countries and topics regarding typical foods, customs, and traditions, but will also include the fundamentals of grammar, vocabulary, speaking, writing, and listening.

Text: Senderos 1, Vista Higher Learning

Credits: .25 (semester)

Prerequisites: None

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Option 9: Advanced Conversational Spanish (Tuesdays and Thursdays)

Level: Advanced, open to middle and upper school students

Course code: JLA code SPN-950

Description: This course will provide a fun opportunity for students who already have a strong background in Spanish to continue their language skills. The focus of this class will be on speaking, but there will be a variety of media used for practice. For example, students might watch short films or movies and then discuss them, or they might listen to and analyze songs, or perhaps they might read and discuss short stories or texts. This class is for students who are beyond Spanish 2 but want to continue developing their speaking and listening skills.

Text: Vista Higher Learning

Credits: .25 (semester)

Prerequisites: Placement in this course will be done at the discretion of the Spanish teacher.

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MS Spanish 1

Level: Level 1. This course will be available both in the middle and upper school.

Course code: JLA code SPN-100, FLDOE 708340

Description: Spanish 1 will provide the fundamentals of the Spanish language (levels A1 and A2 according to the International Common European Framework of Reference for Languages set out by the Council of Europe in 2001). Just like Option 9, this course will take students through a fun and conversational exploration of the cultures of Puerto Rico, some Spanish-speaking communities in the United States, and some Spanish-speaking countries: Mexico, Guatemala, Peru, Spain, Argentina, and Chile. In each of their 8 units, students will learn about the art, music, dance, movies, and popular culture of these countries, as well as their ethnic groups, geographic features, main cities, places of interest, landmarks, typical foods, sports, and the blend of Spanish customs with indigenous traditions. Along the way, they will also acquire the basic skills of reading, writing, speaking, and listening.

Text: Encuentros 1, Vista Higher Learning sta

Credits: 1 (year)

Prerequisites: Students will be placed in the appropriate level at the discretion of the Spanish teacher.

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US Spanish 1

Level: Level 1. This course will be available both in the middle and upper school.

Course code: JLA code SPN-200, FLDOE 708340

Description: Spanish 1 will provide the fundamentals of the Spanish language (levels A1 and A2 according to the International Common European Framework of Reference for Languages set out by the Council of Europe in 2001). Just like Option 9, this course will take students through a

fun and conversational exploration of the cultures of Puerto Rico, some Spanish-speaking communities in the United States, and some Spanish-speaking countries: Mexico, Guatemala, Peru, Spain, Argentina, and Chile. In each of their 8 units, students will learn about the art, music, dance, movies, and popular culture of these countries, as well as their ethnic groups, geographic features, main cities, places of interest, landmarks, typical foods, sports, and the blend of Spanish customs with indigenous traditions. Along the way, they will also acquire the basic skills of reading, writing, speaking, and listening.

Text: Encuentros 1, Vista Higher Learning sta

Credits: 1 (year)

Prerequisites: Students will be placed in the appropriate level at the discretion of the Spanish teacher.

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MS Spanish 2

Level: Level 2. This course will be available both in the middle and upper school.

Course code: JLA code SPN-110, FLDOE 708350

Spanish 2 will provide the continuation of learning the Spanish language (levels A2 and B1 according to the International Common European Framework of Reference for Languages set out by the Council of Europe in 2001) through audiovisual aid, such as songs, graphic novel segments, commercials, videos, and texts with audios about geography and culture, foods, places, and communities. Just like Spanish 1, this course will continue to take students through a fun and conversational exploration of more Spanish-speaking countries but this time as part of a specific geographical region: Mexico and more Spanish-speaking communities in the United States as part of North America; Guatemala, El Salvador, Belize, Honduras, Nicaragua, Costa Rica, and Panama as part of Central America; Puerto Rico, the Dominican Republic, and Cuba as part of the Antilles; Colombia and Venezuela as part of the Continental Caribbean region; Ecuador, Peru, and Bolivia as part of the Central Andes; Argentina, Uruguay, and Paraguay as part of La Plata River; Chile as one of the countries through which the Pan-American Highway passes; and Catalonia, the Basque country, Galicia, and Andalusia as different language-regions of Spain. In each of the 8 units of Spanish 2, students will continue learning about the art, music, dance, movies, and popular culture of these countries as they gain more vocabulary and reflect on how the ways Spanish-speaking people (and we) eat, dress, build houses, live, work, have fun, play sports, interact with one another, and even speak are influenced by their (and our) cultural perspectives and practices. Along the way, they will continue acquiring the skills of reading, writing, speaking, and listening.

Text: Encuentros 2, Vista Higher Learning

Credits: 1 (year)

Prerequisites: Spanish 1, or placement at the discretion of the Spanish teacher.

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US Spanish 2

Level: Level 2. This course will be available both in the middle and upper school.

Course code: JLA code SPN-210, FLDOE 708350

Spanish 2 will provide the continuation of learning the Spanish language (levels A2 and B1 according to the International Common European Framework of Reference for Languages set out by the Council of Europe in 2001) through audiovisual aid, such as songs, graphic novel segments, commercials, videos, and texts with audios about geography and culture, foods, places, and communities. Just like Spanish 1, this course will continue to take students through a fun and conversational exploration of more Spanish-speaking countries but this time as part of a specific geographical region: Mexico and more Spanish-speaking communities in the United States as part of North America; Guatemala, El Salvador, Belize, Honduras, Nicaragua, Costa

Rica, and Panama as part of Central America; Puerto Rico, the Dominican Republic, and Cuba as part of the Antilles; Colombia and Venezuela as part of the Continental Caribbean region; Ecuador, Peru, and Bolivia as part of the Central Andes; Argentina, Uruguay, and Paraguay as part of La Plata River; Chile as one of the countries through which the Pan-American Highway passes; and Catalonia, the Basque country, Galicia, and Andalusia as different language-regions of Spain. In each of the 8 units of Spanish 2, students will continue learning about the art, music, dance, movies, and popular culture of these countries as they gain more vocabulary and reflect on how the ways Spanish-speaking people (and we) eat, dress, build houses, live, work, have fun, play sports, interact with one another, and even speak are influenced by their (and our) cultural perspectives and practices. Along the way, they will continue acquiring the skills of reading, writing, speaking, and listening.

Text: Encuentros 2, Vista Higher Learning

Credits: 1 (year)

Prerequisites: Spanish 1, or placement at the discretion of the Spanish teacher.

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Science, Technology, Engineering & Math

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Core Science for Middle School

[Geo Science: Earth and Space - Infinity and Beyond H](#)

Level: Honors. Required for all students in grade 6.

Course code: JLA code SCI-100, FLDOE 2001320, FBF-eligible

Description: This course's goal is to provide students with lab and field experiences that test and sharpen their observation and inquiry skills on content related to Earth and Space science - semester 1 involves geology and oceanography, while semester 2 undertakes meteorology, and astronomy. The course provides foundational techniques to study science and to improve the students' basic knowledge of how science works. Students learn about the techniques and resources used by Earth scientists and are pushed to utilize those tools to create precise observations and descriptions of weather phenomena, minerals, rocks, and the rock cycle. The annual Tu B'Shevat in January and the JLA Earth Day at year's end mark the conclusion of the two projects that students present on the topics of semester 1 and 2, respectively. Capstone projects involve data collection, analysis, and communication exercises. Written exams, lab practicum, and presentations take place all through the year to evaluate students' mastery of content and practical skills.

Text: Pearson, Earth Science, 15th edition, Tarbuck, Lutgens and Tasa (2017).

Credits: 1 (annual)

Prerequisites: 5th grade science

Co-requisite: For Honors, Math 6 or above. Advanced Earth and Space requires co-placement with Algebra 1.

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Physical Sciences: Forces, Motion & Matter - Positive Energy H

Level: Honors. Required for all students in grade 7 as H.

Course code: JLA code SCI-110, FLDOE 2003010

Description: This course provides students opportunities to refine their laboratory skills and practice science in action. Physical science concepts and other topics (matter, energy, force and motion, chemistry) are explored through hands-on, student-centered activities that involve using scientific methods, collaboration and regularly changing groups of peers. The course begins by introducing the concepts of scientific models and methods as well as theories and laws. Students then practice safely measuring physical properties of matter using a variety of tools and techniques. Students design and perform experiments that illustrate the behavior of matter and intermolecular forces as well as learn the use of scientific notation and significant figures. Students also explore energy in the forms of electricity, heat, light and sound, and perform experiments on force and motion. The last part of the year offers a study of chemistry: an introduction to atomic structure and the periodic table, and balancing chemical equations. Students continue to develop hands-on laboratory and critical- thinking skills, as well as active reading and note-taking skills. Written tests, lab practicals and student presentations of learning occur throughout the year to assess mastery of content and skills.

Text: McGraw Hill, Inspire Physical Science, Grades 9-12, National Edition (2021)

Credits: 1 (annual)

Prerequisites: 6th grade science, a placement test, and teacher recommendation.

Co-requisite: Math 7 or above

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Core Science for Upper School

Biology H

Level: Honors. Required for students in grade 9.

Course code: JLA code SCI-130, FLDOE 2000320

Description: The intent of this introductory biology course is to impart basic biological concepts and important details in biology, and to develop in each student an attitude of inquiry that fosters problem-solving. The course begins with an in-depth exploration of evolution that provides the foundation for topics including molecular biology, biochemistry, genetics, organismal biology and ecology. Biology is an integrated course of lectures, discussions and laboratory experiments with an emphasis on student involvement. The course also emphasizes scientific methodologies. In the second semester, students engage in a hands-on research experience to record the data and analyze real local environmental markers. End-of-semester assessments are comprehensive, project- based assignments that require students to gather, analyze and synthesize information, and communicate ideas effectively.

Text: Concepts & Connections, 8th ed., Jane Reece et al.

Credits: 1 (annual)

Prerequisite: 8th grade science.

Co-requisite: Algebra 1 or above

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Biology AC

Level: Accelerated. Open for students in grade 9. Open also for students in grade 8 with teacher recommendation and placement test. Requirements for level promotion are described in this catalog.

Course code: JLA code SCI-131, FLDOE 2000320

Description: The intent of this introductory biology course is to impart basic biological concepts and important details in biology, and to develop in each student an attitude of inquiry that fosters problem-solving. The course includes evaluations of the foundation for molecular biology, biochemistry, genetics, organismal biology and ecology. Those topics are discussed around 4 big ideas. 1: the process of evolution drives the diversity and unity of life; 2: biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis; 3: living systems store, retrieve, transmit and respond to information essential to life processes; and 4: biological systems interact, and these systems and their interactions possess complex properties. Biology AC has an emphasis on hands-on experimentation and Socratic discussions of modern published research papers. The course also emphasizes scientific methodologies. In the second semester, students engage in a hands-on research experience that culminates in a capstone project. End-of-semester assessments are comprehensive, project-based assignments that require students to gather, analyze and synthesize information, and communicate ideas effectively.

Text: Pearson Campbell Essential Biology with Physiology, Simon, Dickey & Reece, 6th Edition, with MasteringBiology (2019)

Credits: 1 (annual)

Prerequisite: 8th grade science. Course is open to grade 8 students under teacher recommendation and placement test.

Co-requisite: Algebra 1 or above

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Chemistry H

Level: Honors. Required for all students in grade 10.

Course code: JLA code SCI-140, FLDOE 2203350

Description: This course provides the student with an overview of the basic principles of chemistry and underscores the relevance of chemistry to everyday life and global issues. Students study atomic structure, organization of the periodic table, chemical bonding and the characteristics of ionic and covalent compounds, chemical reactions and equations, states of matter, solutions, acids and bases, and the basics of chemical equilibria. Hands-on activities and lab work, which may include inquiry-based methods, facilitate mastery of concepts. Throughout the course, students build conceptual frameworks to relate macroscopic observations to underlying nanoscale behavior. Assessments include both traditional assessments and lab practicals.

Text: Pearson Chemistry, Antony Wilbraham et al.

Credits: 1 (annual)

Prerequisite: Biology Honors

Co-requisite: Geometry or above

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Chemistry AC

Level: Accelerated. Open to students in grade 10, or in grade 9 with teacher recommendation and placement test. Requirements for level promotion are described in this catalog.

Course code: JLA code SCI-141, FLDOE 2203350

Description: This course provides the student with an overview of the basic principles of chemistry and underscores the relevance of chemistry to everyday life and global issues. Students study the particulate nature of matter, experimental techniques, atomic theory,

chemical formulas, organization of the periodic table, chemical bonding and the characteristics of ionic and covalent compounds, chemical reactions and balanced equations, stoichiometry, electrochemistry, chemical energetics, acids, bases and salts and organic chemistry. The curriculum enables learners to understand the technological world in which they live, and develop an understanding of the scientific skills essential for further study in chemistry, physics or life science college-level courses. Hands-on activities and lab work, which may include inquiry-based methods, facilitate mastery of concepts. Throughout the course, students build conceptual frameworks to relate macroscopic observations to underlying nanoscale behavior. Assessments include both traditional assessments and lab practicals.

Text: Pearson Chemistry: The Central Science (MasteringChemistry) 14th Edition
by Theodore Brown et al.

Credits: 1 (annual)

Prerequisite: Biology Honors

Co-requisite: Geometry or above.

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Science Electives for Middle School

Option 9 Botany Basics H (Tuesdays and Thursdays)

Level: Honors. Open to all middle and high school students.

Course code: JLA code SCI-900, FLDOE 2000370

Description: This course is an introduction to the study of plants and their life processes. Students will learn about plant anatomy, physiology, and ecology, as well as the classification and diversity of plants. Botany is the scientific study of plants and their relationships to the environment and humans. In this course, students investigate the growth, reproduction, anatomy, morphology, physiology, structure, genetics, ecology, distribution, classification, and economic importance. Students learn about plant diversity, structure, and function from the perspective of how plants are important to humans. Hands-on work at our greenhouse, and the garden are to be expected.

Credits: .25 (semester)

Text: material provided by instructor

Prerequisite: none

Corequisite: none

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Option 9 Adventures in Health, Science, and Medicine H (Mondays and Wednesdays)

Level: Honors. Open to all middle school students.

Course code: JLA code SCI-930, FLDOE 0800360

Description: The purpose of this course is for students to apply health-related research practices. Experiences include discourses in major health problems in society, modern health practices, current scientific findings related to human diseases and disorders, collection, analysis and evaluation of health information, health advocacy trends, and health career investigations.

Credits: .25 (semester, option 9, Mondays and Wednesdays)

Text: Sources provided by the instructor.

Prerequisite: none

Corequisite: none

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Science Electives for Upper School

Human Anatomy and Physiology H

Level: Honors. Open to students in grades 10-12

Course code: JLA code SCI-240, FLDOE 2000360

Description: This course offers an in-depth study of the structure and function of the human body. A discussion of basic cellular and molecular biology serves as an introduction to the study of the human organism at the cellular, organ and system levels. The foundations of differential diagnosis for disease conditions are explored by running experiments and dissections, and engaging in mock grand rounds. The remainder of the year surveys the various body systems, along with their interactions and abnormalities. Topics covered include blood and immunity, the cardiovascular system, the skeleton, nerves and muscles, the urinary system, metabolic systems and endocrinology. The experimental portion of the course applies theory presented in class to labs and projects that address health, wellness and disease conditions. Assessments include lab practicums, semester projects, discussion boards and essay-format examinations.

Credits: 1 (annual)

Text: Principles of Anatomy & Physiology, 15th ed., Gerard Tortora and Bryan Derrickson

Prerequisites: Biology 9th grade

Co-requisites: Chemistry and Geometry

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Option 9 Research AD (Tuesdays and Thursdays)

Level: Advanced. Open to all upper school students. This can be a continuous course through upper school. Placement by teacher's recommendation.

Course code: JLA code SCI-242, FLDOE

Description: Advanced Research is a capstone experience that allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. In the first quarter, students learn research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. Research portions take place starting the second quarter. Students learn to use statistical tools to analyze their data. The course culminates in an academic paper accompanied by a performance, exhibit, or product where applicable, and a presentation with an oral defense.

Credits: .25 (semester, Option 9. Tuesdays and Thursdays)

Text: Sources provided by the instructor.

Prerequisite: Pre Algebra

Corequisite: Biology and Algebra 1

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Technology and Computer Science

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Computer Science Electives for the Middle School

Coding Scratch H

Level: Honors. Open to MS students. Recommended for grade 6 students.

Course code: JLA code CSC-200, FLDOE 0200010

Description: Scratch is a program developed by MIT that teaches students the basics of how computers think! This program will introduce students to real coding programs and allow them to drag and drop coding blocks to create a fully functional program. The simple user interface and tutorials allow students to quickly create and run their code to see its results! This course assumes no prior computer coding knowledge, and it is designed to interweave lessons with discussions, presentations, peer feedback, and shared reflections. As students proceed through the pathway, the structures increasingly shift responsibility to the students to formulate their own questions, develop their own solutions, and critique their work.

Credits: .5 (semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space. Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Text: Material provided by the instructor

Prerequisites: no prior computer coding knowledge

Co-requisites: none

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iOS App Designer

Level: Honors. Open to MS students. Recommended for grade 7 students.

Course code: JLA code CSC-210, FLDOE 0200020

Description: This course exposes students to the basics of computer programming using a variety of software developed by some of the top technical universities: Massachusetts Institute of Technology, Carnegie Mellon University, and Georgia Tech, to name a few. Students will learn how to design apps, create 3D animations, program music, and use other innovative software. The emphasis is hands-on labs, with occasional lectures and presentations. The goal of the course is for students to develop critical-thinking skills through project-based learning. At the conclusion of the study of various topics, students create projects that bring together their new skills and programming knowledge. Although the course is designed for novice programmers, the curriculum is flexible enough to accommodate the needs of more advanced students.

Credits: .5 (semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space. Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Text: Material provided by the instructor

Prerequisites: no prior computer coding knowledge is required. Scratch recommended.

Co-requisites: none

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Computer Science Electives for Mixed Grades

Option 9 Intro to Computer Science - Programming in Java AC (Tuesdays and Thursdays)

Level: Accelerated. Open to grade 8 and upper school students.

Course code: JLA code CSC-221, FLDOE 0200335

Description: This course provides a thorough introduction to programming in Java. Students become familiar with the syntax and formatting of a Java program. Students learn to develop efficient algorithms that contain conditional branch structures (if/else), iteration (while/for loops), fundamental data types, and arrays. They also study encapsulation and programming organization, which apply to all programming. Object-oriented programming is introduced.

Other topics may include input, output, recursion, and sorting. The semester culminates in an independent project consisting of written portions (planning, research) and programming portions summarizing the principles of programming in Java.

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space.

Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Text: Java for Everyone, Cay Horstmann

Credits: .25(semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space.

Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Prerequisite: Algebra 1

Co-requisite: Geometry or above.

Recommendation: Carrying a B or better in honors English

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Computer Science Electives for the Upper School

[Coding with Python & MatLab \(Fall Semester\) H](#)

Level: Honors. Open to students in grades 9-12

Course code: JLA code CSC-250, FLDOE 9007210

Description: In this course, students study computer programming concepts independent of specific platforms and languages. Weekly projects are assigned, with occasional larger projects. Students are encouraged to collaborate and learn the concepts of computer programming through projects and explorations. The course also offers an introduction to computer hardware and circuitry. Python is the dominant language used to learn computational thinking. Four basic data types are introduced: lists, tuples, sets and dictionaries. MATLAB® provides a flexible, two-way integration with Python. Students compare the flexibility of Python with the complexity of MATLAB, commonly used by scientists and engineers to run technical and mathematical calculations. The semester culminates in an independent project consisting of written (planning, research) and programming portions summarizing the concepts of computer programming.

Textbooks: online and other reference materials provided by the instructor.

Credits: .5 (Fall semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space.

Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Prerequisites: Pre Algebra. No prior computer coding knowledge is required.

Co-requisites: Algebra 1

Recommendation: Carrying a B or better in honors English

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[Coding C# & R - \(Spring Semester\) H](#)

Level: Honors. Open to students in grades 9-12

Course code: JLA code CSC-240, FLDOE 9007210

Description: This course is designed to develop logic and programming skills through immersion in the fundamentals of C. Programming projects involving mathematical problems and word games challenge students to develop their logical reasoning, systematic thinking, and problem-solving skills. Students learn the structure and features of a fundamental programming language as they implement solutions in C, C++, and C#. Students start learning to code in C, a basic-level language. They progress to C++, an intermediate-level language that adds object-oriented features to its base C to compile programs to machine code. After the first

quarter, students dive into C#, as they compile programs to Common Language Runtime or CLR. In addition to teaching programming techniques, the course will cover an overview of fundamental computing concepts such as data structures, library design, and memory management. Finally, students will compare and contrast C# with the fast growing industry use of R, a language widely used by data scientists to heavy statistics and combine different languages into machine learning techniques.

Textbooks: online and other reference materials provided by the instructor.

Credits: .5 (Spring semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space. Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Prerequisites: Pre Algebra. No prior computer coding knowledge is required.

Co-requisites: Algebra 1

Recommendation: Carrying a B or better in honors English

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[Intro to Artificial Intelligence \(AI\) \(Spring Semester\) H](#)

Level: Honors. Open to students in grades 10-12

Course code: JLA code CSC-230, FLDOE 9401 100

Description: Introduction to Artificial Intelligence is the starting point for the Artificial Intelligence pathway. The course examines the fundamental concepts of AI in society and the professional world. Students will gain knowledge in programming, machine learning and will have hands-on experience with the application of AI in various fields. Artificial intelligence is the study of how the mind works and how intelligence can be created or enhanced. Topics include self-driving cars, robots, swarm intelligence, speech recognition, competitive agents, and more. Students will read about, analyze, and create their own algorithms. Games and puzzles will be used to explain concepts and to provide a mathematical testbed for algorithms. Students will also work on projects where they get to learn about, create, and present artificial intelligence.

Text: Artificial Intelligence: A Modern Approach, 4th ed., Stuart Russell and Peter Norvig

Credits: .5 (Spring semester)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space. Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Prerequisite: One year of upper school computer science curriculum, teacher recommendation, and department approval

Co-requisite: Geometry or above.

Recommendation: Carrying a B or better in honors English

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[Applied Data Science AD](#)

Level: Advanced. Open to students in grades 10-12.

Course code: JLA code CSC-212, FLDOE 9401 100

Description: This course introduces students to the emerging field of applied data science, an interdisciplinary field that uses scientific method and algorithms to extract knowledge, trends, and patterns from data. It covers the full spectrum of data science, from data acquisition and cleaning to advanced machine learning techniques and a capstone project that allows students to apply their knowledge to real-world problems. Students learn applications of statistics, machine learning, information visualization, text analysis, and social network analysis. The course starts with a basic review of mathematical, coding, and statistical concepts. A few weeks of Excel from basic to some advanced skills and introductory Python coding follow. Work then begins in applied data science with Python, using an online learning platform (Coursera; Applied Data Science with Python Specialization). During this part of the course, students work with

Python toolkits such as pandas, matplotlib, scikit-learn, nltk, and networkx to gain insight into their data. Throughout the course, students will work with real-world datasets and use Python and Tableau to complete various assignments and projects. The course will provide students with the skills and knowledge they need to begin working as data scientists or to continue their education in the field. During the second semester, students work on projects that involve real-world problems.

Textbooks: materials provided by the instructor; readings and other materials are focused on the latest peer-reviewed literature for each topic in the course

Credits: 1 (annual)

Computer: JLA-provided Macs can be used as long as they have 10 GB of free space. Otherwise, our computer science department provides PCs with adequate memory at the Media Learning Center.

Prerequisite: Algebra 2, and department approval

Corequisite: Precalculus

Recommendation: Carrying a B or better in honors English

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Engineering

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Engineering Electives for the Middle School

FabLab Designers H

Level: Honors. Open to middle school students. Recommended for students in grade 6.

Course code: JLA code EGR-200, FLDOE 8600020

Description: In FabLab Designer, students discover the engineering design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply the design process throughout the unit to design solutions to various problems. Students will use a FabLab to bring their designs to life using 3D printers, laser engravers, CNC machines, and vinyl cutters.

Textbooks: materials provided by the instructor; readings and other materials focused on the latest peer-reviewed literature for each topic in the course.

Credits: .5 (Fall semester), 1 (annual)

Prerequisite: none

Corequisite: none

Recommendation: Carrying a B or better in honors English

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FabLab Solutions and Robotics H

Level: Honors. Open to middle school students. Recommended for students in grade 7.

Course code: JLA code EGR-210, FLDOE

Description: Students work within a Project Lead the Way "workshop" to explore, build, and create achievable projects within a wide range of skills or areas. The "Workshop" may cover alternative energy, animation, crafts, fashion, fiber arts, photography, robots, sustainability, vehicles, woodworking/carpentry, deconstruction, construction, circuits, motors, and switches, propulsion, printing, architecture, etc. Students will compete in Makerspace and VEX Robotics competitions opportunities during the year.

Textbooks: materials provided by the instructor; readings and other materials focused on the latest peer-reviewed literature for each topic in the course.

Credits: .5 (Spring semester), 1 (annual)

Prerequisite: none

Corequisite: none

Recommendation: Carrying a B or better in honors English.

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Engineering Electives for the Upper School

[Intro to Engineering H](#)

Level: Honors. Open to all high school students new to engineering.

Course code: JLA code EGR-230, FLDOE 8600550

Description: Engineering Essentials is a full-year course designed to explore the work of engineers and their role in the design and development of solutions to real-world problems. The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing. Using PLTW's activity-, project-, problem-based (APB) instructional approach, students advance from completing structured activities to solving open-ended projects and problems that provide opportunities to develop planning and technical documentation skills, as well as in-demand, transportable skills, such as problem solving, critical and creative thinking, collaboration, communication, and ethical reasoning. The last is particularly important as the course encourages students to consider the impacts of engineering decisions. Through both individual and collaborative team activities, projects, and problems, students create solutions to problems as they practice common engineering design and development protocols, such as experimental design, testing, project management, and peer review. In addition, the course emphasizes statistical analysis and mathematical modeling – computational methods that are commonly used in engineering problem-solving.

Textbooks: materials provided by the instructor; readings and other materials are focused on the latest peer-reviewed literature for each topic in the course

Credits: 1 (annual)

Prerequisite: Department approval

Corequisite: Algebra 1

Recommendation: A semester class in coding and a B or better in honors English.

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[Principles in Engineering AD](#)

Level: Advanced. Open to students in grades 10 to 12.

Course code: JLA code EGR-202, FLDOE 8600520

Description: Principles of Engineering provides students with the knowledge and skills necessary to imagine, design, and prototype an invention, as well as some techniques for promotion and business- plan implementation. In the first semester, students use engineering design and CAD modeling, along with machine design, microcontroller programming (as necessary), and basic electrical/electronic circuits, to craft a working prototype of the instructor's choosing. In the second semester, students are presented with two alternatives: either invent a product of their own imagination, or partner with students from the economics courses to take a new concept through the same process as the first semester. In either case, Engineering 2 students will finish

the year by developing materials (brochure, video, "elevator pitch") for marketing the idea. Texts: selected readings, videos, and online resources provided by the instructor

Textbooks: materials provided by the instructor; readings and other materials are focused on the latest peer-reviewed literature for each topic in the course

Credits: 1 (annual)

Prerequisite: Intro to Engineering

Corequisite: Geometry

Recommendation: A semester class in coding and a B or better in honors English.

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Mathematics

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Core Mathematics for Middle School

Grade 6 Math H

Level: Honors. Mandatory for students in grade 6.

Course code: JLA code MAT-100, FLDOE 1205010

Description: In grade 6 Honors Math, instructional time will emphasize five areas: (1) performing all four operations with integers, positive decimals, and positive fractions with procedural fluency; (2) exploring and applying concepts of ratios, rates, and percent to solve problems; (3) creating, interpreting, and using expressions and equations; (4) extending geometric reasoning to plotting points on the coordinate plane, area, and volume of geometric figures; and (5) extending understanding of statistical thinking.

Textbooks: McGraw Hill Everyday Math 4 Comprehensive Student Materials Set, Grade 6. National Ed. (2020)

Credits: 1 (annual)

Prerequisite: Math grade 5

Corequisite: none

Recommendation: none

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Grade 7 Math H

Level: Honors. Mandatory for students in grade 7.

Course code: JLA code MAT-110, FLDOE 1205040

Description: In grade 7 Honors Math, instructional time will emphasize five areas: (1) recognizing that fractions, decimals, and percentages are different representations of rational numbers and performing all four operations with rational numbers with procedural fluency; (2) creating equivalent expressions and solving equations and inequalities; (3) developing an understanding of and applying proportional relationships in two variables; (4) extending the analysis of two- and three-dimensional figures to include circles and cylinders; and (5) representing and comparing categorical and numerical data and developing an understanding of probability.

Textbooks: McGraw Hill, Reveal Math Accelerated Grade 7 with Aleks. National Ed. (2021)

Credits: 1 (annual)

Prerequisite: Math grade 6

Corequisite: none

Recommendation: none

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Grade 7 Math AC

Level: Accelerated. Open to students in grade 6.

Course code: JLA code MAT-111, FLDOE 1205050

Description: In grade 7 Honors Enriched Math, instructional time will emphasize six areas: (1) representing numbers in scientific notation and extending the set of numbers to the system of real numbers, which includes irrational numbers; (2) generating equivalent numerical and algebraic expressions, including using the Laws of Exponents; (3) creating and reasoning about linear relationships, including modeling an association in bivariate data with a linear equation; (4) solving linear equations, inequalities, and systems of linear equations; (5) developing an understanding of the concept of a function; and (6) analyzing two-dimensional figures, particularly triangles, using distance, angle, and applying the Pythagorean Theorem.

Textbooks: McGraw Hill, Reveal Math Accelerated Grade 7-8 with Aleks. National Ed. (2021)

Credits: 1 (annual)

Prerequisite: Math grade 6 and teacher recommendation or placement test

Corequisite: none

Recommendation: Teacher recommendation

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Pre Algebra H

Level: Honors. Mandatory for students in grade 8.

Course code: JLA code MAT-120, FLDOE 1205060

Description: The topics covered in Pre-Algebra include the use of variables in arithmetic equations; review of addition, subtraction, multiplication and division with whole numbers, decimals and fractions; algebraic properties; integers and equations; number theory; rational numbers; ratio, proportion and percent; introduction to probability and statistics; informal geometry: perimeter, area, surface area, volume; metrics, graphing inequalities; and graphing linear equations. These topics are applied frequently in solving word problems. Students are also expected to demonstrate their understanding of mathematics through writing. The goals include providing skills needed for the study of Algebra 1, developing an ability to apply these skills to solve word problems, and improving written communication skills in mathematics.

Textbooks: McGraw Hill, Reveal Math Course 1 with Aleks and Arrive Math Booster, National Ed. Grades 6-9 (2020)

Credits: 1 (annual)

Prerequisite: Math 7, teacher recommendation

Corequisite: none

Recommendation: none

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Pre Algebra AC

Level: Accelerated. Open to students in grade 7.

Course code: JLA code MAT-121, FLDOE 1205060

Description: The topics covered in Pre-Algebra include the use of variables in arithmetic equations; review of addition, subtraction, multiplication, and division with whole numbers, decimals, and fractions; algebraic properties; integers and equations; number theory; rational numbers; ratio, proportion, and percent; introduction to probability and statistics: median, mean, mode; the metric system and unit conversions to the international system of units; informal geometry: perimeter, area, surface area, volume; metrics of triangles, trapezoids, circles, prisms, and cylinders; graphing linear equations; and solving two-step equations and inequalities.

Textbooks: Glencoe Math Accelerated, a Pre-Algebra Program

Credits: 1 (annual)

Prerequisite: Math 6

Corequisite: none

Recommendation: teacher recommendation

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Pre Algebra AoPS

Level: Art of Problem Solving. Open to students in grade 6.

Course code: JLA code MAT-122, FLDOE 1205070

Description: In AoPS Pre Algebra, instructional time will emphasize six areas: (1) representing numbers in scientific notation and extending the set of numbers to the system of real numbers, which includes irrational numbers; (2) generating equivalent numerical and algebraic expressions, including using the Laws of Exponents; (3) creating and reasoning about linear relationships, including modeling an association in bivariate data with a linear equation; (4) solving linear equations, inequalities, and systems of linear equations; (5) developing an understanding of the concept of a function; and (6) analyzing two-dimensional figures, particularly triangles, using distance, angle, and applying the Pythagorean Theorem. Prealgebra AoPS prepares students for the rigors of algebra and also teaches students problem-solving techniques to prepare them for prestigious middle school math contests such as MATHCOUNTS, MOEMS, and the AMC 8.

Textbooks: AoPS Prealgebra with Alcumus, Richard Rusczyk, David Patrick, Ravi Boppana (2021).

Credits: 1 (annual)

Prerequisite: Math 7

Corequisite: none

Recommendation: teacher recommendation

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Core Mathematics for Upper School

Algebra 1 H

Level: Honors. Mandatory for students in grade 9.

Course code: JLA code MAT-130, FLDOE 1200310

Description: This course offers the fundamentals of algebra, covering topics that utilize the mechanics of algebra in order to develop and hone problem-solving skills. Real-life applications are stressed whenever possible. These problem-solving skills play a vital role not only in future math courses, but also in all subject areas. The topics include a review of operations with integers and rational numbers, solving equations and inequalities, word-problem applications, polynomials, factoring, functions and graphs, linear systems, quadratics, radicals and rational expressions.

Textbooks: McGraw Hill, Reveal Algebra 1 with Aleks, Grades 9-12, National Ed. (2020)

Credits: 1 (annual)

Prerequisite: Pre Algebra

Corequisite: none

Recommendation: none

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Algebra 1 AC

Level: Accelerated. Open to students in grade 8.

Course code: JLA MAT-131, FLDOE 1200320

Description: Explore variables, simplify expressions, manipulate linear, exponential, and quadratic functions, and apply algebraic knowledge to real life scenarios. By the end of this

course, you will be able to: 1. employ general function notation to identify independent and dependent variables and define the domain and range of a given function; 2. factor quadratic and cubic polynomial expressions; 3. graph one- and two-variable linear functions, quadratic functions, and compound multivariable inequalities; 4. interpret and evaluate linear and quadratic functions, and exponential growth and decay functions; 5. manipulate and simplify one- and two-variable algebraic expressions containing exponents and radicals; 6. solve linear equations, inequalities, and systems of equations and inequalities with one or two variables; 7. apply linear equations to organize, analyze, and summarize data sets; and 8. extract relevant information from application scenarios to formulate equations and expressions

Textbooks: Pearson Beginning Algebra 8e with MyLab, by Elayn Marting-Gray (2023)

Credits: 1 (annual)

Prerequisite: Pre Algebra

Corequisite: none

Recommendation: teacher recommendation

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[Algebra 1 AoPS](#)

Level: Art of Problem Solving. Open to students in grade 7.

Course code: JLA code MAT-132, FLDOE 1200330

Description: In this course, students learn the basics of algebra from former USA Mathematical Olympiad winner and Art of Problem Solving founder Richard Rusczyk. Topics covered in the course include linear equations, ratios, quadratic equations, special factorizations, complex numbers, graphing linear and quadratic equations, linear and quadratic inequalities, functions, polynomials, exponents and logarithms, absolute value, sequences and series. Algebra 1 AoPS prepares students for the rigors of algebra and also teaches students problem-solving techniques to prepare them for prestigious math contests such as MATHCOUNTS, MOEMS, and others.

Text: AoPS Introduction to Algebra, by Richard Rusczyk (2021).

Credits: 1 (annual)

Prerequisite: Pre Algebra

Recommendation: teacher recommendation

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[Geometry H](#)

Level: Honors. Mandatory for students in grade 10.

Course code: JLA code MAT-140, FLDOE 1206310

Description: Geometry introduces students to the mathematical theory of space. This course emphasizes a rigorous approach, utilizing the student's ability to handle abstractions and generalize and apply concepts to concrete examples. It is a fast-paced course and challenges the student to interpret complex written problems and write well-supported solutions to those problems. Topics from regular geometry are covered along with a rigorous study of logic and coordinate geometry and a review of algebra. Assignments consist of problems that hone new skills as well as deepen the students' understanding of geometric concepts. Students are expected not only to complete daily assignments, but to engage in discussions about the topics in class. Major assessments are given approximately every two weeks and are cumulative. Additionally, the teacher may quiz periodically to assess the students' knowledge of the material.

Text: Glencoe Glencoe Geometry, John A. Carter et al. (2017)

Credits: 1 (annual)

Prerequisite: Algebra 2

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Geometry AC

Level: Accelerated. Open to students in grade 9.

Course code: JLA code MAT-141, FLDOE 1206320

Description: Geometry (Algebra-based) offers an introduction to a mathematical theory of space. This course concentrates on Euclidean geometry while maintaining and sharpening algebraic skills. The topics include: deductive systems, undefined terms, definitions, postulates, theorems, proofs, indirect proofs; subsets of space: points, lines, planes, segments, rays, angles, triangles, quadrilaterals, polygons, and polygonal regions; real numbers and measurement: betweenness, distance, angle measure, area, volume, convex sets and separation, incidence, perpendicularity and parallelism; equivalence relation: congruence, proportionality and similarity; the Pythagorean Theorem; circles, tangents, arcs, chords, regular polygons, circumference, sectors; prisms, pyramids, cylinders, cones and spheres; and right triangle trigonometry. Although students are expected to be able to write formal and indirect proofs, algebraic proofs will be emphasized, especially in the coordinate geometry unit. Projects involving ALEKS, a system that uses artificial intelligence to help design personalized learning programs, will be used to complement traditional assignments.

Text: McGraw Hill Geometry with Aleks, Grades 9-12, National Edition (2020).

Credits: 1 (annual)

Prerequisite: Algebra 1 and department approval

Recommendation: teacher recommendation

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Intro to Geometry AoPS

Level: Art of Problem Solving. Open to students in grade 8.

Course code: JLA code MAT-142, FLDOE 1206810

Description: Geometry (Proof-based) introduces students to the mathematical theory of space, and is more theoretical than Geometry (Algebra-based), emphasizing the process of proving theorems. This course emphasizes a rigorous approach, utilizing the student's ability to handle abstractions and generalize and apply concepts to concrete examples. It is a fast-paced course and challenges the student to interpret complex written problems and write well-supported solutions to those problems. Topics from Geometry (Algebra-based) are covered as well as a rigorous study of logic, including including topics such as similar triangles, congruent triangles, quadrilaterals, polygons, circles, funky areas, power of a point, three-dimensional geometry, transformations, and introductory trigonometry. Geometry AoPS prepares students for the rigors of geometry and introduction to trigonometry and also teaches students problem-solving techniques to prepare them for prestigious math contests such as MATHCOUNTS, MOEMS, and others.

Text: AoPS Introduction to Geometry with Alcumus, by Richard Rusczyk (2021).

Credits: 1 (annual)

Prerequisite: Algebra 2 and department approval

Recommendation: teacher recommendation

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Algebra 2 H

Level: Honors. Mandatory for students in grade 11.

Course code: JLA code MAT-150, FLDOE 1200330

Description: Algebra 2 builds on the knowledge gained in Algebra 1. Students must be able to use variables to construct and solve equations and inequalities arising from modeling real-life situations. The emphasis is on linear and quadratic functions. Additionally, polynomial, logarithmic and exponential functions are discussed. This course enhances the student's ability to reason numerically, analytically and graphically, and employs the use of the graphing

calculator. The mathematics department believes that writing must be used to gain a deeper understanding of mathematics, and thus students will be asked to write in and outside of class.

Text: McGraw Hill, Reveal Algebra 2 with Aleks, Grades 9-12, National Edition (2020)

Credits: 1 (annual)

Prerequisite: Algebra 1

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Algebra 2 AC

Level: Accelerated. Open to students in grade 10.

Course code: JLA code MAT-151, FLDOE 1200330

Description: Algebra 2 provides a continuation of algebra topics, including properties of real numbers, simplifying algebraic expressions, solving linear equations and inequalities, absolute value, systems of linear equations, linear functions and their graphs, linear programming, polynomials, rational expressions, number systems (irrational and complex), solving quadratic equations and inequalities, quadratic functions and their graphs, variation, solving polynomial equations, analytic geometry, exponential and logarithmic functions, conics, matrices and determinants. The goals of the course include applying the skills learned in Algebra I, improving students' written communication skills in mathematics and using the graphing calculator as a learning tool and problem solver.

Text: Glencoe Algebra 2, Grades 9-12 (2018)

Credits: 1 (annual)

Prerequisite: Geometry and department approval

Recommendation: teacher recommendation

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Algebra 2 AoPS

Level: Art of Problem Solving. Open to students in grade 9.

Course code: JLA code MAT-152, FLDOE 1200340

Description: In this course, topics covered include a review of basic algebra topics, complex numbers, quadratics and conic sections, polynomials, multivariable expressions, sequences and series, identities, inequalities, exponents and logarithms, piecewise-defined functions, functional equations.

Text: AoPS Intermediate Algebra, by Richard Rusczyk and Mathew Crawford. (2020)

Credits: 1 (annual)

Prerequisite: Geometry and department approval

Recommendation: teacher recommendation

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Precalculus H

Level: Honors. Mandatory for students in grade 12.

Course code: JLA code MAT-160, FLDOE 1202340

Description: Precalculus reviews several algebra and geometry topics and includes the study of trigonometry and analytic geometry. The course provides a rigorous review of functions, both linear and quadratic, graphing and interpreting data from graphs, elementary theory of equations, and logarithmic and exponential functions. From geometry, the following topics are reviewed: parallel and perpendicular lines, congruent triangles, polygons and circles. This course also includes the study of trigonometric functions, trigonometric identities, solving trigonometric equations and applications. The graphing calculator is used throughout the course as a tool for exploring and deepening precalculus concepts.

Text: Precalculus, 11th ed., Ron Larson and Robert Hostetler (2021)

Credits: 1 (annual)

Prerequisites: Algebra 2 and Geometry

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Precalculus AC

Level: Accelerated. Open to students in grade 11.

Course code: JLA code MAT-161, FLDOE 1202380

Description: Analytic Precalculus challenges students in problem-solving and analytical functions, stressing individual initiative and creativity in applying techniques. The course begins with a rigorous study of trigonometry, using both right-triangle and circular-function approaches. The progression of skills taught in Algebra 2 and Geometry is advanced with topics including polynomial, rational, exponential and logarithmic functions, and inverses of functions. Graphing techniques, such as translation, rotations and scale changes are studied. Topics may also include mathematical induction, the Binomial Theorem, summation notation, arithmetic and geometric sequences and series, De Moivre's Theorem, polar and parametric equations, and matrices and determinants. Students are expected to interpret complex problems and write well-supported solutions to those problems. The graphing calculator is used throughout the course as a tool for exploring, deepening precalculus concepts, and offering access to interesting and more difficult problems.

Text: McGraw Hill, Precalculus High School Edition, by Julie Miller, with Aleks< grades 9-12, National Edition (2024)

Credits: 1 (annual)

Prerequisites: Algebra 2 and department approval

Recommendation: teacher recommendation

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Precalculus AoPS

Level: Art of Problem Solving. Open to students grades 9 and 10.

Course code: JLA code MAT-162, FLDOE 1202380

Description: This course covers trigonometry, complex numbers, vectors, and matrices. It includes nearly 1000 problems, ranging from routine exercises to extremely challenging problems drawn from major mathematics competitions such as the American Invitational Mathematics Exam and the USA Mathematical Olympiad.

Text: AoPS Precalculus (2nd ed.), by Richard Rusczyk (2020).

Credits: 1 (annual)

Prerequisite: Algebra 2 and department approval

Recommendation: teacher recommendation

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Mathematics Electives for Middle School

Problem Solving and Logic H

Level: Honors. Open to students in grades 6-8.

Course code: JLA code MAT-230, FLDOE 9009600

Description: The activities in this course are an outgrowth of the Future Problem Solving Program International, a competitive program for students around the world. The Partnership for 21st Century Skills nonprofit organization promotes a framework for considering the skills that students will need as they prepare for their future lives. Under the heading of Learning and Innovation Skills, this course espouses the "4 C's" of critical thinking and problem solving, communication, collaboration, and creativity. The 21st Century Fluency Project is a collaboration of educators and entrepreneurs who are focused on identifying the skills needed to make learning relevant in a digital age. The subtopic of "Solution Fluency" describes the process of

problem solving as a key component of those skills; the practice provided in this course will start students on a path to developing this fluency. The other subtopics of information fluency, collaboration fluency, creativity fluency, and media fluency are developed by exploring 5 main components: 1. GIPS: Global Issues Problem Solving; 2. CmPS Community Problem Solving; 3. Scenario Writing; 4. AbPS: Action-based Problem Solving; and 5. Issues pertinent to Florida and Miami. The course includes activities in a "Preparation for Problem Solving" section consisting of seven activities followed by eight full problem solving experiences - five experiences are based on pieces of literature of increasing sophistication, and three experiences are focused on real-world topics.

Text: The Problem Solving Experience: Classroom Curriculum Designed to Promote Problem Solving in the 21st Century, by Martha Barlow et al.

Credits: .5 (Semester)

Prerequisite: department approval

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Financial Literacy for the Middle School H

Level: Honors. Open to students in grades 6-8.

Course code: JLA code MAT-220, FLDOE 8540400

Description: This course is based on a narrative that actively involves students in knowledge creation and skill building that they can apply in their own lives. Upon starting the course, students are welcomed to the scenario: Every year, there's a competition to determine the best-run and happiest town but for the last few years, Townville has never risen above 2nd or 3rd place. You've just been named the new mayor and are determined to push Townville to the top! As mayor your first order of business is to start answering emails from the town's citizens. As you begin to read emails, you realize that many of the citizens are struggling to make the most of their finances. As the new mayor it's time to roll up your sleeves, help the citizens make smart money choices, and bring home the Happiest Town trophy! By assuming the role of Townville's Mayor and helping the citizens achieve their financial goals, students embody perspectives and address real-world financial decisions within the context of a larger goal. The result is a learning experience that builds healthy financial habits and encourages students to apply a variety of financial skills to many connected decisions, rather than in isolation. The course opens with a "Financial Personality Test" in which students identify present and future values and reflect on their financial habits. The 5 learning lessons start with a scenario introduction where students learn about a goal or task that a citizen wants to achieve and the financial barriers they are facing. Students are then taken through a series of activities where they learn about financial concepts and immediately apply them to the scenario. Each content lesson ends with free-response reflection questions encouraging students to reflect on the concepts they have learned and apply them to their lives. In the final lesson students revisit the values they identified in the very beginning of the course and complete a portfolio piece – their Blueprint - through a series of activities in which they identify and prioritize personal, financial, education and career goals.

Text: Material is determined by the teacher following the National Jump\$tart Standards, and State-Based Financial Literacy Standards.

Credits: .5 (Semester)

Prerequisite: department approval

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Option 9 Middle School Competition Prep AoPS (Mondays and Wednesdays)

Level: Art of Problem Solving. Open to students in grades 6-8.

Course code: JLA code MAT-232

Description: In this course, accelerated and advanced math students search for problems and materials to prepare for Competition Math in the areas of Algebra, Counting, Probability,

Number Theory, and Geometry. The focus is to clarify concepts, identify strategies as well as helpful tips and tricks to solve advanced mathematical problems. Students prepare for contests like MATHCOUNTS and the AMC 8/10/12.

Text: AoPS The Art of Problem Solving, Volume 1: the Basics, (2020). And AoPS Competition Math for Middle School, by Jason Batterson (2020).

Credits: .25 (Semester) .5 (annual)

Prerequisite: department approval

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Mathematics Electives for Upper School

Option 9 Upper School Financial Literacy with a Business Perspective H (Tuesdays and Thursdays)

Level: Honors. Open to students in grades 9-12.

Course code: JLA code MAT-900, FLDOE 8500120

Description: Financial Literacy for High School course teaches students how to make wise financial decisions to promote financial well-being over their lifetime. This course interactive lessons will translate complex financial concepts and help students develop actionable strategies for managing their finances. During the first semester of the course, students will understand the different ways to acquire income, develop a savings and investing plan, create a budget, track expenses, make informed purchases, monitor and protect their money, and navigate financial institutions and financial products. Topic areas include: 1. Banking Basics—Students will gain confidence in engaging with financial institutions and picking the right products for their life and financial goals. 2. Income and Employment —Students will feel confident in navigating the choices and paperwork presented when starting a new job. 3. Budgeting—Students will set short-term and long-term financial goals and create a personal budget that tracks spending. 4. Consumer Skills—Students will proactively research purchase decisions and select the best way to pay for those purchases. 5. Credit and Debt—Students will engage in wise debt management practices and avoid expensive borrowing behaviors. 6. Financing Higher Education—Students will develop a plan for financing postsecondary education or training. 7. Insurance—Students will become aware of the need for a risk management strategy and how insurance plays a role. During the second semester of the course, a capstone project allows students to explore marketplaces and investing basics, how the market works and gain the confidence to participate in it. Learners blend economic concepts with investing topics to learn how the government, corporations, and individuals come together to participate in the financial marketplace. Through an engaging, gamified learning experience, students blend macroeconomic concepts with investing topics to learn how the government, corporations, and individuals come together to participate in the financial marketplace. Topic areas include: 1. Financial Markets and Exchanges: Students build an understanding of how the global economy and financial markets are connected to all parts of their lives. 2. The Economy and the Government: Students analyze how policymakers make decisions to regulate the economy and the impact those choices have on the markets. 3. Growing a Company to an IPO: Students assist an entrepreneur in analyzing various financing options and navigating the IPO process. 4. Personal Investing: Students evaluate why and how to invest at different life stages and put their knowledge into practice through a gamified simulation.

Text: Material is determined by the teacher following the National Jump\$tart Standards, and State-Based Financial Literacy Standards.

Credits: .25 (Semester) .5 (annual)

Prerequisite: department approval

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Applied Statistics and Probability H

Level: Honors. Open to students in grades 9 to 12.

Course code: JLA code MAT-200, FLDOE 1210300

Description: The first semester offers an introduction to descriptive statistics. Topics in the first semester include collecting data, comparing and describing data, sampling and experimental design, confidence intervals, probability, and normal and binomial distributions. The second semester offers an introduction to inferential statistics. Topics covered in the second part of statistics include the principles of inferential statistics using comparisons to analyze data, inferences with categorical data and relationships in data. Assignments, projects and technology include the use of Excel and TI-84 programs. Students do all calculations with the use of these tools. Students undertake quarterly projects that relate to the term-long research project — namely the design, implementation and analysis of an experiment.

Text: Workshop Statistics, 4th ed., Allan Rossman and Beth Chance

Credits: 1 (annual)

Prerequisites: Algebra 2 and department approval.

Recommendation: teacher recommendation

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Calculus 1 H

Level: Honors. Open to students in grades 9 to 12.

Course code: JLA code MAT-210, FLDOE 1202300

Description: This course offers an introduction to calculus. Emphasis is on applying the concepts of the derivative and integral to engineering, business, economics, life sciences and social and behavioral science. The graphing calculator will be used as the major laboratory tool for exploring calculus concepts and attempting more interesting and difficult problems. Topics covered in this course include a brief review of precalculus concepts, limits, related rates, optimization, differential equations, average value, volume, antiderivatives, definite integrals, improper integrals and numerical methods. The course includes a significant project component in which students explore practical applications of calculus.

Text: Calculus: An Applied Approach, 12th ed., Ron Larson and Bruce Edwards (2023)

Credits: 1 (annual)

Prerequisites: Precalculus and department approval.

Recommendation: teacher recommendation

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Calculus AoPS

Level: Art of Problem Solving. Open to students in grades 9-12.

Course code: JLA code MAT-202, FLDOE 1202310

Description: Advanced Placement Calculus 1 is a college-level course designed to meet the requirements for the Advanced Placement Calculus AB Examination and to prepare students for Advanced Placement Calculus 2. Topics covered include the algebra of functions, trigonometry, logarithms, advanced graphing techniques, limits and continuity, the derivative and its applications, techniques of differentiation and integration, area under a curve, integrals and their applications, and the first and second fundamental theorems of calculus. Students learn to interpret complex problems and write well-supported solutions to those problems. The graphing calculator is used throughout the course as a tool for exploring, deepening calculus concepts and preparing the student to solve more difficult problems.

Text: AoPS Calculus, by David Patrick (2020).

Credits: 1 (annual)

Prerequisite: Precalculus and department approval

Recommendation: teacher recommendation

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Upper School Competition Prep AoPS

Level: Art of Problem Solving, Open to students in grades 9-12.

Course code: JLA code MAT-242

Description: In this course, students prepare for contests like MATHCOUNTS, the Mandelbrot Competition, and the American Mathematical Contest AMC 8/10/12 series to qualify for the Math Olympiad Summer Program which trains students for the United States International Math Olympiad team. In the first part of the year, students focus on classic problem solving, learning and understanding methods rather than memorizing formulas so as to enable students to solve large classes of problems beyond already available problems during the second semester. This course helps students prepare for advanced high school contests like the AMC 12, AIME, and the Harvard-MIT Mathematics Tournament.

Text: AoPS the Art of Problem Solving, Volume 2: Beyond, by Sandor Lehoczky and Richard Rusczyk (2020).

Credits: .25 (Semester) .5 (annual)

Prerequisite: department approval

Recommendation: teacher recommendation

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Judaic Studies

Middle School Judaic Studies Alef

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Middle School Judaic Studies Alef courses meet every day for one semester. Students may choose two of the three courses to their grade level. All courses are text based and texts will be provided in both the original language and in English translation.

Shabbat and the Holidays

Level: 6th Grade

Course Code: JUD-110

Description: Explore one of Judaism's most iconic practices: The Mitzvah of Shabbat. In addition to becoming knowledgeable in the laws of Shabbat, you will learn profound ideas from classic Jewish philosophical writings to gain a better appreciation of what Shabbat means and why it is such an integral part of our Jewish identity. Throughout the course we will use a wide range of texts that will help us trace the Halacha from its biblical roots to its practical application. We will also focus on the text of the siddur to learn about the prayers, their meaning and how they help us create the right mindset for the day. You will also have the opportunity to learn about the uniqueness of Sephardi and Ashkenaz customs and cultures as they influence the laws and experience of Shabbat.

Text: Source Packet

Credits: .5 (Semester)

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The Wisdom of our Sages: Pirkei Avot

Level: 6th Grade

Course Code: JUD-100

Description: Using the ancient teachings and wisdom of the Rabbis from 2000 years ago, this course will offer students an opportunity to explore ideas central to Judaism's approach to life found within the pages of Pirkei Avot/Ethics of our Sages. How did the compilers of the Mishna describe a life worth living? In this course students will study the sayings of ancient Jewish leaders, and will explore how their messages are still relevant today.

This course will require students to study Mishnayot, reflect on the lessons being taught, and thoughtfully discuss the relevant messages of each lesson.

Credits: .5 (Semester)

Text: Mishna Avot

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Sanctifying Maker Space: Studying Holy Buildings and Items

Level: 6th Grade

Course Code: JUD-120

Description: Exploring the concepts and importance of holy places and objects, students will learn about God's chosen spaces, including The Garden of Eden, Mt. Sinai, Israel, Jerusalem, the First, Second and Third Temples, the Synagogue, and artifacts that we use in rituals like the Shofar, and Lulav.

Students will examine primary texts with commentaries, and will use the Mishnah, Talmud, Maimonides and modern resources, to deepen their understanding of the design and function of these spaces and objects.

A project based learning course, students will study the features of sanctified buildings, and objects, in order to design, and create their own.

Credits: .5 (Semester)

Text: Source Packet

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The Art of Jewish Prayer

Level: 7th Grade

Course Code: JUD-200

Description: A course on the ritual of Tefillah, Jewish prayer, designed to address the most fundamental questions and challenges that prayer can pose. Discover the origin of prayer and its evolution over time up to the development of the siddur. Gain a deeper understanding of how the structure of prayer, the words, the ideas, and the laws, all take part in the transformative experience of meditation. Explore the technical and cultural aspects of prayer as you gain appreciation for the differences in customs and traditions.

Credits: .5 (Semester)

Text: Koren NCSY Siddur

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From Slavery to Redemption: The Exodus Story

Level: 7th Grade

Course Code: JUD-220

Description: This course will examine the Exodus story as a model of transformation and redemption in Jewish tradition. The course will explore the biblical narrative of the Israelites' liberation from slavery in Egypt, as well as the theological and ethical implications of this story for Jewish identity and ethics. Anchored in the text of the Chumash, students will explore the story with supporting commentary and consider some of the lessons that can be applied to their own lives. Students will work on refining their reading comprehension and analytical skills within the Chumash and its commentaries.

Credits: .5 (Semester)

Text: Chumash Shemot

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Talmud Bava Metzia: What's Mine?

Level: 7th Grade

Course Code: JUD-210

Description: Take a deep dive into Jewish legal theories around the concepts of ownership, burden of proof, power of attorney, etc. Focus on the mitzvah of returning a lost object and use it as a prism to understand possession, transferring of ownership, and responsibility towards others and their property. In this course we will show progress of concepts from Scripture to Mishna to Talmud to Law.

Sharpen reading comprehension through analysis of the Talmud. Expand knowledge of basic terms and phrases from Talmud.

Credits: .5 (Semester)

Text: Talmud Bava Metzia

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Middle School Judaic Studies Bet

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Middle School Judaic Studies Bet courses meet twice a week for an entire year. Students may choose one of the three courses to their grade level. All courses are text based and texts will be provided in both the original language and in English translation.

[Introduction to Nezikin: Civil and Criminal Law](#)

Level: 6th Grade

Course Code: JUD-160

Description: Introduction course on the main topics, laws, and principles of Nizikin. Explore the theory and laws of damages to people and property. Using the verses in Mishpatim, selection of Mishnayot and passages from the Talmud, you will develop textual analysis skills while becoming familiar with the process of talmudic law. Learn how to build character traits like accountability, responsibility, mindfulness, honesty, and compassion by reflecting on the lessons that these technical laws reveal.

Credits: .5 (Annual)

Text: Mishna Nezikin

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[Parsha in Depth](#)

Level: 6th Grade

Course Code: JUD-140

Description: A synopsis of the weekly Torah reading with a focus on specific verses and lessons. This class will focus on exploring their deeper meaning and relevance to our lives today. Through close reading of the text, analysis of commentaries from classic and contemporary sources, and discussion of contemporary issues and challenges, students will gain a rich and nuanced understanding of the Torah and its relevance to modern Jewish life. Students will research and create their own Divrei Torah and will be able to discuss ideas from the Parsha in their homes over Shabbat.

Credits: .5 (Annual)

Text: The Chumash (5 books)

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[Navigating the Jewish Calendar](#)

Level: 6th Grade

Course Code: JUD-150

Description: This course offers an in-depth study of the Jewish calendar, including its holidays, festivals, and observances. Through an exploration of the historical, cultural, and religious contexts of each event, students will gain a comprehensive understanding of the Jewish year and its significance to Jewish life. Through our study of these components, we will develop a deeper understanding of the rhythms and cycles of the Jewish year and the significance of each event. We will explore how each holiday and observance reflects Jewish values and traditions and how they are celebrated and observed in different Jewish communities around the world.

Credits: .5 (Annual)

Text: The Books of Our Heritage

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Talmud Agaddata

Level: 7th Grade

Course Code: JUD-250

Description: The Sages were known for many amazing abilities, and one of their most underrated skills was storytelling. The pages of the Talmud are replete with amazing, fantastical, and inspiring stories of sacrifice, miracles and more. This course will explore 13 such stories including the Sage that became a heretic, and the excommunicated Sage who unsuccessfully used miracles to try and make his case.

Credits: .5 (Annual)

Text: The Crowns on the Letters

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Anarchy & Authority: Sefer Shoftim

Level: 7th Grade

Course Code: JUD-240

Description: The book of Shoftim bridges the extraordinary time period between Joshua's conquering of the Promised Land and the establishment of the Jewish monarchy. This time period is marked by decentralized Jewish leadership, massive controversies, inter-tribe confrontations culminating in a major civil war between 11 tribes on one side against 1 tribe, and deeply relevant lessons about Jewish identity, leadership and life. This text centric course will explore the entirety of this book, and will offer a deep dive into a unique time in Jewish history, a time that relates more to our current existence than perhaps any other book in the Bible.

Credits: .5 (Annual)

Text: Sefer Shoftim

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The 613 Opportunities for Connection

Level: 7th Grade

Course Code: JUD-230

Description: There are 613 commandments in the Torah each of which offer a unique opportunity to develop a relationship and connection with God. Begin the course by exploring the ineffable and infinite nature of divine commandments. Using samples from the ten commandments and beyond, we will discover how each specific commandment helps us develop a relationship between man and God, between man and man, and between man and himself.

Credits: .5 (Annual)

Text: Sefer Hamitzvot

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Middle School Judaic Studies Option 9

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Middle School Judaic Studies Option 9 courses meet twice a week either for one semester or for the full year. The Beit Midrash course is intended for students who want to continue building their text skills in Hebrew and / or Aramaic.

Bat Mitzvah: An Introduction to Jewish Adulthood (Monday/Wednesday)

Level: 6th Grade

Course Code: JUD-920

Description: Becoming a Bat Mitzvah is the journey of becoming a full, adult member of the Jewish community. This course will explore what this means, and will encourage students to make a meaningful commitment to contributing to the Jewish community. Exploring Jewish concepts including Kashrut, Shabbat, Tefilah, Brachot, Fasting, Kibud Av Va'em, students will be challenged to articulate their core values. Students will encounter inspirational personas, and will understand what it means to be part of the chain of Jewish tradition and what it means to be a Jewish woman.. Students will master writing Divrei Torah and public speaking. Students will explore their family ancestry and will create a project that will celebrate their commitment to the Jewish community.

Credits: .5 (Annual)

Text: Source Packet

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Bar Mitzvah: An Introduction to Jewish Adulthood (Tuesday/Thursday)

Level: 6th and 7th Grades

Course Code: JUD-920a

Description: Becoming a Bar Mitzvah is the journey of becoming a full, adult member of the Jewish community. This course will explore what this means, and will encourage students to make a meaningful commitment to contributing to the Jewish community. Exploring Jewish concepts including Kashrut, Shabbat, Tfila, Brachot, Fasting, Kibud Av Va'em, students will be challenged to articulate their core values. Students will encounter inspirational personas, and will understand what it means to be part of the chain of Jewish tradition and what it means to be a Jewish man...Students will master writing Divrei Torah and public speaking. Students will explore their family ancestry and will create a project that will celebrate their commitment to the Jewish community.

Credits: .5 (Annual)

Text: Source Packet

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Beit Midrash: Mishnayot Moed (Monday/Wednesday)

Level: 6th & 7th Grades

Course Code: JUD-900

Description:

In this text based course, JLA students will explore the foundational ideas of the Jewish holidays found in the Mishnayot in the section called Moed. Mishnah, upon which the Talmud bases much of its discussions, offers the most critical ideas that define Jewish life and tradition. Students will focus on their ability to read and understand the Mishnah as well as identify the key debates raised within Mishnah. Students will learn the tools to decode the structure and purpose of Mishnayot.

Credits: .5 (Annual) or .25 (Semester)

Text: Mishna Moed

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Upper School Judaic Studies Alef

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Upper School Judaic Studies Alef courses meet every day for one semester. Students may choose two of the three courses to their grade level. All courses are text based and texts will be provided in both the original language and in English translation.

God in Our World

Level : 9th & 10th Grade

Course Code: JUD-410, FLDO 2105340

Description : While it is impossible for a human to comprehend the essence of God, the Torah expects us to become familiar with God by learning from how He chooses to interact with this world. The course will begin with the first and most important interaction of all: Creation of the World. Through the narratives of the Torah as well as its commandments we will develop a nuanced understanding of what God is and how we can go about having a meaningful relationship with Him.

Credits: .5 Credits (Semester)

Text: Source Packet

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Talmud Kedushin: Sanctity of Life

Level: 9th & 10th Grade

Course Code: JUD-400

Description: Our lives are full of obligations and responsibilities. As children we are met with obligations towards our parents and as we grow into independence we have the additional obligation to take accountability for our own actions. The Torah teaches us that men and women receive their own unique set of responsibilities as they enter adulthood. During this course we will consider and analyze the development of our obligations from childhood and on. We will compare and contrast those obligations which are unique to each gender. Finally, we will explore our responsibility towards humanity and our community and define the dichotomy between one's personal responsibilities and one's responsibility towards others.

Credits: .5 Credits (Semester)

Text: Talmud Kedushin

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Rebellion and Responsibility: Sefer Bamidbar

Level: 9th & 10th Grade

Course Code: JUD-430

Description: Beginning with Chapter 11 of the Book of Numbers/Bamidbar, students will explore the numerous complaints and rebellions of the Israelites, while they were wandering through the desert towards the land Promised to their ancestors. Students will explore the dynamics of uncertainty that gripped the nation, the rebellions from within, and the external enemies, while considering the emotional and spiritual development of the nation freed from slavery in Egypt. Focus will be on reading the primary text of Bamidbar, exploring numerous commentaries, and creating a class commentary around core themes.

Credits: .5 Credits (Semester)

Text: Chumash Bamidbar

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Maimonides: The Medicine Man & Jewish Master

Level: 9th & 10th Grade

Course Code: JUD-440

Description: Of the 23 historical figures whose portraits hang over the gallery doors of the House Chamber in the U.S. Capitol, due to their outsized role in establishing the principles that underlie American law, one stands out for the Jewish community: Rabbi Moshe ben Maimon (the Rambam). Considered one of history's greatest minds, Rambam's image is at the center of institutions of American law, and is also at the center of the development of Jewish law. A philosopher, prolific writer, mystic, and medical doctor, the Rambam fled antisemitism, served as the physician to the Sultan of Egypt, mourned deeply the tragic death of his brother, and transformed Jewish life as we know it. Students in this course will piece together the events of the Rambam's life using his written texts, and will gain a deeper understanding of this maverick Rabbi, whose epitaph compares him to the great Moses, giver of God's law.

Credits: .5 Credits (Semester)

Text: Source packet

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Upper School Judaic Studies Bet

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Upper School Judaic Studies Bet courses meet twice a week for an entire year. Students may choose one of the three courses to their grade level. All courses are text based and texts will be provided in both the original language and in English translation.

The Archaeology and Science of Judaism

Level: 9th Grade/10th Grade

Course Code: JUD-480

Description: During this course students will explore the intimate connection and tension that exists between Science and Torah. We will compare key events, predictions, and facts from the Torah with the most current findings of mathematics, biochemistry, paleontology, and physics. We will look at archeological discoveries to gain a better understanding of our history and the Torah text. Through an open-eyed investigation of the world of science and archeology we will enhance our religious beliefs and connection to the Torah, our nation, and our history.

Credits: .5 Credits (Annual)

Text: Source Packet

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Relationships in the Torah

Level: 9th Grade/10th Grade

Course Code: JUD-460

Description: This course will examine the relationships between individuals and communities as presented in the Torah. The course will explore the themes of love, friendship, and community, as well as the ways in which these themes are intertwined and affect one another. Through close readings of biblical texts, students will examine how the Torah presents and characterizes relationships between individuals and groups. Using scripture, commentaries, modern thinkers on relationships, this course will enable students to explore their interpersonal relationships and think deeply about how they want to connect, and respect others. Students will develop a deep understanding of the ways in which the Torah presents and characterizes relationships, and be

able to engage thoughtfully and constructively with debates and discussions related to love, friendship, and community in Jewish tradition and others.

Credits: .5 Credits (Annual)

Text: Chumash (5 books)

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Game of Thrones: Sefer Melachim

Level: 9th Grade/10th Grade

Course Code: JUD-450

Description: With the demise of King David, and ultimately his passing, the test of any dynasty is how the values are passed from generation to generation. In this course students will examine the Kings that followed David's rule, and will explore the challenges in managing the nation of Israel, with enemies attacking it from within and without. Students will examine the stories contained within the books of Kings and will create a profile of Jewish Kingship and leadership, while also considering the lessons that may be relevant to the political realities in the modern State of Israel.

Credits: .5 Credits (Annual)

Text: Sefer Melachim

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Anatomy of the Soul

Level: 9th grade/10th Grade

Course Code: JUD-470

Description: Discover the anatomy of the soul and its functions. Learn about each of the five aspects of a human soul and its influence on the way we live. Through a better understanding of our soul we will have a better understanding of who we are as individuals and as a species. Understanding the anatomy of the soul is the first and most important step in identifying the cause of our emotional and spiritual challenges. During this course we will focus on the 8 Chapters of the Rambam and his description of one's obligation to develop a balanced character through the refinement of their soul.

Credits: .5 Credits (Annual)

Text: 8 Chapters of the Rambam

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Upper School Judaic Studies Electives

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Upper School Judaic Studies Elective courses meet four times a week for one semester during the Upper School elective slot. These courses can be taken in addition to a student's Judaic Studies Alef, Bet, and Option 9 courses. All courses are text based and texts will be provided in both the original language and in English translation.

Hasidut: A Spiritual Journey

Level: 9 & 10th Grade

Course Code: JUD-800

Description: A course on the history of the Chasidut movement, its key sects and their fundamental philosophy and mission. We will explore the controversy and opposition they face as well as the biographical descriptions of some of the most important personalities who have shaped the ideas and lifestyle of Chasidut. In addition to its rich history, we will explore

fundamental ideas of Chasidut as they are described in primary texts, written over the last 200 years from the inception of the movement to the current day. We will become familiar with how these ideas represent themselves in practice amongst key Chasidut sects.

Credits: .5 Credits (Semester)

Text: Source Packet

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Jewish Resilience: Spiritual and Physical Heroism

Level: 9th & 10th Grade

Course Code: JUD-810

Description: This course will explore the concept of Jewish heroism, focusing on both spiritual and physical resilience. Students will examine the role of Jewish heroes throughout history, including those who have faced persecution, oppression, and violence, as well as those who have demonstrated strength and courage in times of adversity. Through a combination of readings, discussions, and interactive exercises, students will gain a deeper understanding of what it means to be a Jewish hero and how these heroes have contributed to the Jewish community and the world at large.

Credits: .5 Credits (Semester)

Text: Source Packet

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Upper School Judaic Studies Option 9

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Upper School Judaic Studies Option 9 courses meet twice a week either for one semester or for the full year. The Beit Midrash course is intended for students who want to continue building their text skills in Hebrew and / or Aramaic.

Beit Midrash: Talmud Makkot

Level: Upper School

Course Code: JUD-990

Description:

In this text-based course, students will undertake a detailed study of specific topics in Talmud Makkot, a central text in Jewish tradition. The course explores the ethical principles and values presented in Makkot, as well as their historical and cultural context. Through close analysis of selected passages, students will examine topics such as the boundaries of punishment, the measurement of integrity, and the concept of responsibility in Jewish law and thought. In addition, the course will explore how these topics are relevant within contemporary society. Through class discussions, reflective writing, and engagement with textual, primary sources, students will develop their critical thinking and analytical skills, deepen their understanding of Jewish history and culture, and gain insight into the role of Makkot in shaping Jewish law and practice. Students will also learn Gemara vocabulary and syntax.

Credits: .5 Credits (Annual)

Text: Talmud Makkot

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Beit Midrash: 10 Tests of Faith: A Textual Analysis

Level: Upper School

Course Code: JUD-9000

Description:

This course is an in-depth textual study of the Ten Tests of Avraham. The course will explore the Ten Tests of Avraham in detail, examining the narrative, historical and philosophical aspects of each test. Through the course of study, students will gain an understanding of the theological and ethical implications of Avraham's tests, and their relevance to contemporary Jewish thought and practice. Students will practice their skills in Hebrew reading and translation by engaging in a close reading of the Chumash text with textual analysis, and critical interpretation. They will also study commentaries by medieval and contemporary scholars, including Rashi, Ramban, Ibn Ezra, Netziv and more. Students who wish to stretch their textual skills are encouraged to try this course.

Credits: .5 Credits (Annual)

Text: Talmud Makkot

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Mussar: Jewish Ethical Improvement

Level: Upper School

Course Code: JUD-970, FLDO 2105350

Description: The Mussar movement is a Jewish ethical, educational and cultural movement that developed in 19th century Lithuania, focused on moral conduct, ethical instruction and self discipline. Its proponents argued that in addition to studying the stories and laws which are central to Jewish teaching, a Jew had to take time out of every day to focus on the practical implementation of those values into their everyday life.. Explore the classical works of the Mussar movement which analyze various character traits while charting out a pragmatic approach to self refinement. Through the study of Mussar we will gain a better understanding of human psychology, debate and define ethical and moral behavior, and learn balanced etiquette that is both socially and spiritually sound.

Credits: .5 Credits (Annual)

Text: Olam Hammidot

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Hebrew

Hebrew for Middle School

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[Intro to Spoken Hebrew Ulpan](#)

Level: 6th Grade

Course Code: HEB-100

Description: Learning Hebrew enables us to connect to the land of Israel and its culture, to Jewish life, practice, and ritual. It deepened one's connection to Jewish heritage and history, and its connection to the global Jewish community.

This introductory course is focused on building basic literacy and communicative skills in Hebrew, with a focus on topics such as "Home", "Family", and "Day to Day life". Students will engage in reading, writing, speaking, and listening, while also being introduced to Israeli culture through authentic materials like texts, songs, articles, and videos. Alongside linguistic development, this program also aims to foster 21st century skills such as complex thinking, problem solving, cooperation, and creativity.

Credits: 0.5 (Annual)

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[Intro to Spoken Hebrew Intermediate](#)

Level: 6th Grade

Course Code: HEB-110

Description: Our program aims to develop students' language skills while also providing them with a deep understanding of Israeli culture. It will enable students to communicate effectively in Hebrew while engaging in all four language skills: reading, writing, speaking, and listening. Language learners at Intermediate level will achieve basic proficiency in the four language skills. Students will learn to communicate effectively with others: they will be able to talk about unit learned topics. They will be able to form sentences, ask questions, and to handle simple "survival" situations. In terms of reading, they will be able to understand simple and predictable texts with the help of contextual cues. When it comes to listening, students will be able to understand simple sentence-length speech on everyday topics and extract basic information from new information they hear.

"Family" and "Home" units focus on the immediate living environment and the surrounding area. These units will explore the students' immediate environment through songs, art and texts. The unit will enrich the vocabulary, grammar, and syntax of the students in the context of the immediate environment.

Credits: 0.5 (Annual)

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[Intro to Spoken Hebrew Accelerated](#)

Level: 6th Grade

Course Code: HEB-120

Description: Our program aims to develop students' language skills while also providing them with a deep understanding of Israeli culture. It will enable students to communicate effectively in Hebrew while engaging in all four language skills: reading, writing, speaking, and listening. Language learners at this level will work towards holding conversations on personal topics. They will learn to communicate effectively in short paragraphs using simple sentences and get their ideas across more fluently. When it comes to reading and listening, they will work towards

understanding the main ideas and some supporting details in connected discourse in authentic narrative texts and in topics of general interest.

"Family" and "Home" units focus on the immediate living environment and the surrounding area. These units will explore the students' immediate environment through songs, art and texts. The unit will enrich the vocabulary, grammar, and syntax of the students in the context of the immediate environment.

Credits: 0.5 (Annual)

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Spoken Hebrew 1 Ulpan

Level: 7th Grade

Course Code: HEB-200

Description: Learning Hebrew enables us to connect to the land of Israel and its culture, to Jewish life, practice, and ritual. It deepened one's connection to Jewish heritage and history, and its connection to the global Jewish community.

This introductory course is focused on building basic literacy and communicative skills in Hebrew, with a focus on topics such as "Home", "Family", and "Day to Day life". Students will engage in reading, writing, speaking, and listening, while also being introduced to Israeli culture through authentic materials like texts, songs, articles, and videos. Alongside linguistic development, this program also aims to foster 21st century skills such as complex thinking, problem solving, cooperation, and creativity.

Credits: 0.5 (Annual)

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Spoken Hebrew 1 Intermediate

Level: 7th Grade

Course Code: HEB-210

Description:

Language learners at Intermediate level will achieve basic proficiency in the four language skills: reading, writing, speaking, and listening. Students will learn to communicate effectively with others: they will be able to talk about familiar topics as well as unit learned topics. The 7th-grade Hebrew curriculum is designed around the theme of "Friendship and responsibility". In this course, students will delve into the topic of friendship and responsibility. The course will address questions such as "what makes a friendship close and positive for all parties", and "when one is required to take responsibility". Students will also learn about the relationship between reciprocity, friendship, and responsibility.

Authentic Israeli materials such as texts, poetry, articles, and videos will be used to develop language skills and expand linguistic knowledge and vocabulary. The program is designed to support the development of 21st century skills such as complex thinking, problem-solving, critical thinking, collaboration creativity, and an understanding of Israeli culture.

Credits: 0.5 (Annual)

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Spoken Hebrew 1 Accelerated

Level: 7th Grade

Course Code: HEB-220

Description:

Students at the Accelerated level will work towards producing spoken and written language in the form of a connected sentences paragraph that will enable them to communicate their ideas more fluently. Language learners at this level will work to conduct conversations on personal and general topics and learn to communicate effectively. As far as reading and listening are

concerned, they will work to understand the main ideas and significant details in connected discourse in authentic narrative texts and on a variety of topics.

The 7th-grade Hebrew curriculum is designed around the theme of "Friendship and responsibility". In this course, students will delve into the topic of friendship and responsibility. The course will address questions such as "what makes a friendship close and positive for all parties", and "when one is required to take responsibility". Students will also learn about the relationship between reciprocity, friendship, and responsibility.

Authentic Israeli materials such as texts, poetry, articles, and videos will be used to develop language skills and expand linguistic knowledge and vocabulary. The program is designed to support the development of 21st century skills such as complex thinking, problem-solving, critical thinking, collaboration creativity, and an understanding of Israeli culture.

Credits: .5 (Annual)

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Hebrew for Upper School

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Spoken Hebrew 3 Ulpán

Level: 9th / 10th Grade

Course Code: HEB-400

Description:

Learning Hebrew enables us to connect to the land of Israel and its culture, to Jewish life, practice, and ritual. It deepened one's connection to Jewish heritage and history, and its connection to the global Jewish community.

This introductory course is focused on building basic literacy and communicative skills in Hebrew, with a focus on topics such as "Home", "Family", and "Day to Day life". Students will engage in reading, writing, speaking, and listening, while also being introduced to Israeli culture through authentic materials like texts, songs, articles, and videos. Alongside linguistic development, this program also aims to foster 21st century skills such as complex thinking, problem solving, cooperation, and creativity.

Credits: .05 (Annual)

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Spoken Hebrew 3 Intermediate

Level: 9th/10th Grade

Course Code: HEB-410

Description:

Language learners at Intermediate level will achieve basic proficiency in the four language skills. Students will learn to communicate effectively with others: they will be able to talk about familiar topics as well as unit learned topics. They will be able to form sentences, ask questions, and to handle simple "survival" situations. In terms of reading, they will be able to understand simple and predictable texts with the help of contextual cues. When it comes to listening, students will be able to understand simple sentence-length speech on everyday topics and extract basic information from new information they hear.

The 9th-grade Hebrew curriculum is designed around the theme of "myself". Students will explore the teenage desire to know the world, find their path in it, and leave their mark on it. They will learn how to articulate their dreams and wishes and fulfill them. Through the use of authentic Israeli materials such as texts, poetry, articles, and videos, students will develop their language skills while expanding their linguistic knowledge and vocabulary. Moreover, the program is designed to support students in developing 21st century skills such as complex thinking, problem-solving, critical thinking, cooperation, creativity, and an understanding of Israeli culture.

It will conclude by fulfilling the Zionist dream and transitioning from an individual perspective to that of a nation.

Credits: 0.5 (Annual)

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Spoken Hebrew 3 Accelerated

Level: 9th/10th Grade

Course Code: HEB-420

Description:

When it comes to language learning at this Accelerated level, learners will work on having conversations about both personal and general topics, improving their communication skills in longer and more complex discourse. They will aim to express their ideas fluently in multiple paragraphs. In terms of reading and listening skills, they will focus on comprehending the main ideas as well as supporting details in different types of texts, including authentic narrative and descriptive pieces, as well as general interest topics.

The 9th-grade Hebrew curriculum is designed around the theme of "myself". Students will explore the teenage desire to know the world, find their path in it, and leave their mark on it. They will learn how to articulate their dreams and wishes and fulfill them. Through the use of authentic Israeli materials such as texts, poetry, articles, and videos, students will develop their language skills while expanding their linguistic knowledge and vocabulary. Moreover, the program is designed to support students in developing 21st century skills such as complex thinking, problem-solving, critical thinking, cooperation, creativity, and an understanding of Israeli culture. It will conclude by fulfilling the Zionist dream and transitioning from an individual perspective to that of a nation.

Credits: 0.5 (Annual)

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Physical Conditioning

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[Middle School Dance Fitness and Yoga](#)

Level: None-open to all middle school students.

Course code: PHY 170, FLDOE 0300000

This course provides students with the physical study of various dance styles with an emphasis on enjoyment, self-expression and social interaction. Daily movement/physical activity will develop muscular strength, flexibility and stamina. This course does not require specific equipment, and students do not need to have any background in dance to sign up. Additionally, students will learn the fundamentals of yoga. They will learn the basic poses, movement sequences, and breath patterns. In doing so, they will not only strengthen their bodies, but their minds as well. Yoga promotes meditation and mindfulness, peace, gratitude, and self-awareness. It is sure to be a relaxing respite in their busy schedules!

Credits: .5 Semester)

Prerequisites: None.

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[Upper School Dance Fitness and Yoga](#)

Level: None-open to all upper school students.

Course code: PHY280, FLDOE 0300310

This course provides students with the physical study of various dance styles with an emphasis on enjoyment, self-expression and social interaction. Daily movement/physical activity will develop muscular strength, flexibility and stamina. This course does not require specific equipment, and students do not need to have any background in dance to sign up. Additionally, students will learn the fundamentals of yoga. They will learn the basic poses, movement sequences, and breath patterns. In doing so, they will not only strengthen their bodies, but their minds as well. Yoga promotes meditation and mindfulness, peace, gratitude, and self-awareness. It is sure to be a relaxing respite in their busy schedules!

Credits: .5 (Semester)

Prerequisites: None.

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[Middle School Hoops \(Basketball\)](#)

Level: None-open to all middle school students.

Course code: PHY150, FLDOE

Basketball is a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical conditioning, and game-play strategies of basketball. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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[Upper School Basketball](#)

Level: None-open to all upper school students.

Course code: PHY290, FLDOE

Basketball is a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical

conditioning, and game-play strategies of basketball. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Middle School Futbol (Soccer)

Level: None-open to all middle school students.

Course code: PHY180 , FLDOE

Futbol/Soccer is the beautiful game - a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical conditioning, and game-play strategies of soccer. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Upper School Futbol (Soccer)

Level: None-open to all upper school students.

Course code: PHY240 , FLDOE

Futbol/Soccer is the beautiful game - a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical conditioning, and game-play strategies of soccer. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Middle School Volleyball

Level: None-open to all middle school students.

Course code: PHY100 , FLDOE

Volleyball is a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical conditioning, and game-play strategies of volleyball. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Upper School Volleyball

Level: None- open to all upper school students.

Course code: PHY210, FLDOE

Volleyball is a fast-paced, team sport that can be enjoyed by almost everyone and played for many years beyond school age. This course will cover the rules, fundamental skills, physical conditioning, and game-play strategies of volleyball. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Middle School Flag-football

Level: None- open to all middle school students.

Course code: PHY160, FLDOE

Flag Football is designed to introduce students to the fundamental skills, strategies, and rules of the game. This course aims to foster physical fitness and develop individual skills and teamwork. Emphasis will be placed on passing, receiving, running, defense and game tactics. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Upper School Flag-football

Level: None- open to all upper school students.

Course code: PHY270, FLDOE

Flag Football is designed to introduce students to the fundamental skills, strategies, and rules of the game. This course aims to foster physical fitness and develop individual skills and teamwork. Emphasis will be placed on passing, receiving, running, defense and game tactics. Beyond the game itself, students will learn about general physical fitness, weight training, and nutrition to be able to lead a healthy life.

Credits: 1/2 (semester)

Prerequisites: None.

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Advisory

Level: Core Grades 6-7 /Core Grades 9-10

Course code: ADV-100 & 110/ADV-200 & 210

Description: This program meets every Friday with an advisor who will guide and mentor students on academic and non-academic school related issues. Advisory is not a content-specific class. Instead, students and teachers will use advisory to engage in academic, socio-emotional, and school-wide culture building. Additionally, one semester of freshman advisory will be dedicated to Health & Wellness instruction, and one semester of eighth grade advisory will be focused on Career/Ed planning.

Credit: N/A

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August In Israel

Level: Grades 9-10

Course code: ISR 100

Description: Students in grades 8-12 will spend the first 4 weeks of school every year studying Hebrew, Jewish History, Bible, and contemporary Israeli culture and politics in an immersive, real world setting in Israel. Students will study Hebrew language in real life settings and will have the opportunity to practice their Hebrew on the ground. Each grade will focus on one of five segments of Jewish History beginning with Abraham and leading up to current events with unique experiences, trips, and programs that will bring what they are learning in class to life. Media portrayals about Israel as well as current events and politics will be explored every morning. Jewish texts that will complement their Jewish history studies will be provided in Beit Midrash learning sessions.

Credit: N/A

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Language Lab

Level: Grades 6-12

Course Code: HEB 800 (MS) HEB 810 (US)

Description: During Language Lab, students will have the opportunity to work on their Hebrew reading and writing skills. Work will be assigned in tandem with their Hebrew classes to support their learning and further develop their Hebrew skills. Students will work independently under the supervision of Hebrew teachers who will support them as they progress through their work modules.

Credit: N/A

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Morning Joe

Level: Core Grades 6-12

Course code: MNJ 100 (MS) MNJ 200 (US)

Description: Morning Joe is a weekly forum where students will discuss current events and other various topics. The purpose is to train our students to become sophisticated consumers, and

ultimately producers, of information media by educating them about media literacy, credible sources, and bias in the news, while teaching them to discuss current events with empathy, nuance, and a respect for other opinions. The vision is to have a topic of the month that students will learn about and then discuss and/or debate in various formats throughout the subsequent weeks.

Credit: N/A

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Nesher

Level: Honors Grades 6-12

Course code: NSR 100 (MS) NSR 200 (US)

Description: A time each week devoted to project- and inquiry-based activities designed to encourage students to problem solve and think critically using project management tools. During this period, students will question, research, and develop a personal area of interest that encourages imagination, innovation, and independence. During the first semester, advisers guide students in identifying a passion of their choice and securing in or out of school experts. Students explore, discover, and question the parameters of their research proposals in defined areas that reflect local and national annual themes, such as, though not limited to, those suggested by the Fairchild Gardens, CIJE, Ashoka ChangeMakers, or the MIT Solve Global Challenges. Usual areas include economic prosperity, climate, learning, youth innovation, and health. During the second semester, students engage in real-life observations to examine the systems selected, acquire and categorize data, analyze it statistically, and visualize what the results suggest. Students compile and present their findings during the Nesher Expo. Lastly, students review the feedback received, discuss further, and publish their results to guarantee the continuity of their projects and the dissemination of their conclusions.

Credit: 1

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Service Entrepreneurship Program

Level: Honors Grades 6-12

Course code: SEP 100 (MS), SEP 200 (US) FLDOE

Description: A time dedicated each week for JLA students to focus on acts of kindness, through regular volunteering and acts of generosity. Middle school students will split their time between volunteering with a variety of causes and engaging in design challenges that teach Design Thinking based on DTech High School's curriculum.. High School students will have the opportunity to focus on one of two specialized tracks. The Volunteering track will require JLA to spend the majority of their time focused on field work, and will include complimentary leadership seminars and processing sessions. The Entrepreneurship track will call on the students' Design Thinking skills and training to build a systemic solution to a challenging problem of their choice. All students will create a digital portfolio that will capture their reflections, and projects within Service Entrepreneurship, throughout their years at JLA.

Credit : 1

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Soul Center

Level: Core Grades 6-12

Course code: SLC 100

Description: Students will study and experience the weekly rhythm of Torah knowledge and Jewish Life. Programming types are inspired by the relevant themes chosen for each week and

for the year. Students will become versed in and connected to current events, the weekly Torah portion, and Holidays by being immersed in a wide range of learning styles and experiences.

Credit: NA

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Star Summit

Level: Core Grades 6 & 7

Course code: STS 100 (6th) STS 200 (7th)

Description: A four week program designed for 6th and 7th grade students commencing in August. The focus of STAR SUMMIT is to acquaint students with JLA, including Judaic Studies, and provide an introduction to the campus, curriculum, and faculty. During this time, the students will be engaged in activities that will prepare them for their middle year experiences. Students will participate in a myriad of learning opportunities including Design Thinking and Project Based Learning. Every Friday is devoted to off campus excursions that relate to curricular themes. Connection, Collaboration, and Innovation are the cornerstones of the program.

Credit: N/A

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Tefillah

Level: Core Grades 6-12

Course code: TFL 100

Description: Tefillah is a time for the whole school to gather together and pray for ourselves, our families and the wider community. It offers students the opportunity to learn the tunes, customs and liturgy used by the Jewish People for thousands of years. Tefillah will be an introspective time of the day for students to reflect on their connection with God, the community and with themselves. All students are required to attend Shacharit in the morning, whereas Mincha in the afternoon is optional. In deference to the diverse backgrounds of our student body, whenever possible two minyanim (services) will be held: Ashkenaz and Sefard. Students will be given the option of attending the minyan of their choice.

Credit: 1

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