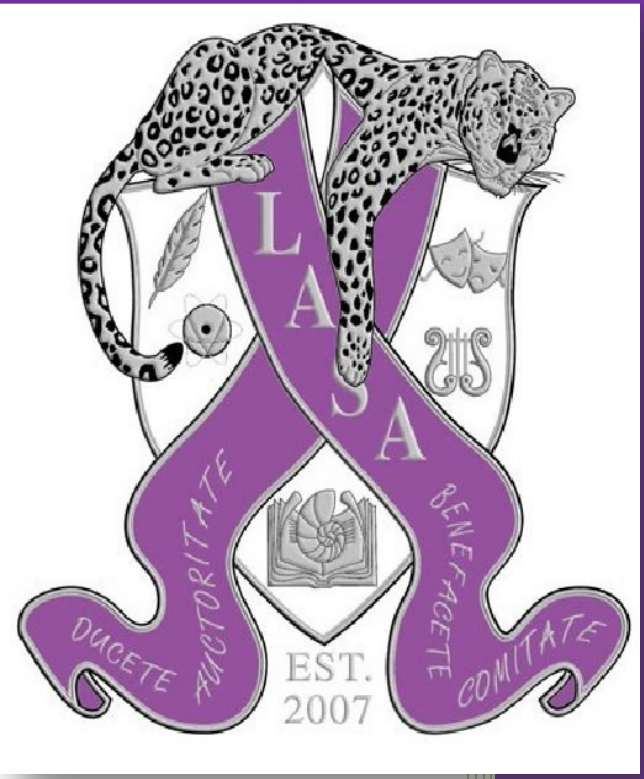
2017 - 2018

Liberal Arts and Science Academy Course Guide



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CLASS RANK

Because admission to LASA is competitive and tested aptitudes are above the national average, rank in class cannot be regarded as a valid indication of preparation for college for the students of LASA. For this reason, we only report class rank for the top ten percent of the senior class applying to Texas public universities pursuant to Texas Education Code Section 51.803. Student may request that their rank be reported.

CREDIT BY EXAM

WHAT IS CREDIT BY EXAMINATION?

Credit by Exam offers students the opportunity to take an exam to receive credit for a course.

CREDIT BY EXAMINATION WITH PRIOR INSTRUCTION

- Students entering the District with prior instruction in a foreign language that is documented by a grade report or documentation from a school of record, but have not had the actual course, may take a CBE for that foreign language and pass with a score of 70 or higher if they desire high school credit for that course. The 70 percent passing standard would also still apply to those students missing a semester of a LOTE course in which they have had prior instruction.
- Students who request AISD to validate high school credits from non-accredited private or home school programs may also register to take CBE during the District group administrations at no cost to the student or parent, and may be scheduled on an individual basis to meet time limits for completing the tests to validate credits.
- Prior instruction as defined by the District, includes:
    - Enrollment in a non-accredited public, private, parochial school, or homeschool program, as verified by an official school transcript/record; or as evidenced by a student work portfolio that may include: course syllabus, work samples, completed culminating exam, and list of resources (textbooks, Web sites, etc.).
    - For a semester course (18 weeks), proof of at least nine weeks of classroom instruction; or
    - Proof of completion of half of the required lessons of a correspondence course.
- **NOTE**: Previous administrations of credit by examination do constitute prior instruction

CREDIT BY EXAMINATION WITHOUT PRIOR INSTRUCTION

CBE for Acceleration allows students who have not received prior instruction in courses to take an exam to receive credit in an academic subject with approval from the school counselor, registrar, or principal, and parent. Credit is only given for an academic subject in which the student has had no prior instruction if the student gets 80 percent of the items correct on the exam. Grades 9-12 exams are by semester (e.g. English 1A, English 1B). **Eligibility to test for acceleration or with prior instruction must be verified by the student's counselor.**

CBE REGULATIONS

- Failing scores on credit by examination are not recorded on the transcript.
- A passing credit by examination grade cannot be yearlong averaged with a failing credit by examination grade for award of credit. Passing grades earned through credit by examination may be yearlong averaged with grades earned in the classroom, traditional setting, or credit recovery programs.
- Students will not be permitted to rescind a request for credit by examination for acceleration once the test has been completed.
- A student will not be permitted to retake credit by examination for acceleration tests for a higher grade once the student has met minimum passing standards, nor take credit by examination for the purpose of earning a higher grade to replace an existing passing grade in a course.
- Credit earned through credit by examination will be recorded on the transcript as a non-weighted course.

HOW CAN STUDENTS PREPARE FOR THE TESTS?

UT study guides for credit by exam are available online at: http://www.utexas.edu/ce/k16/cbe-ea/study-guides/

Please contact your counselor for more information about Credit By Exam.

GRADE POINT AVERAGE (GPA)

PASS/FAIL SCORES

Pass/fail scores, whether earned in the District or transferred from a sending district, shall not be used in computing GPA.

CUMULATIVE GPA

- The cumulative grade point average is reflective of all completed high school credit courses, including grades earned in high school courses prior to grade 9, through the given reporting semester.
- Six weeks grades for courses in progress are NOT included in the cumulative grade point average. The high school report card reflects the cumulative grade point average.
- GPA is calculated twice per year, at the end of each semester.

RANK GPA

Class rank shall be determined by descending order of students' weighted GPAs earned in courses that satisfy the students' graduation plans in the following curriculum categories:

1. English/language arts;
2. Mathematics;
3. Science;
4. Social studies; and
5. Languages other than English (LOTE).

If a student completes more courses that satisfy the student's graduation plan than required within any of the five categories specified above, the student's weighted GPA used for class rank shall be calculated using the student's grades within each category with the highest grade point value.

HOMEWORK

The amount of homework students complete for classes varies by student. The students, along with teacher input, have provided an average amount of time it can take students to complete their homework. You will see a clock next to each course in this Course Guide and the chart below explains what these clocks represent. Some students think about their homework daily and some students conceptualize their homework by the week. Therefore, the table below has homework calculated on a daily or weekly basis. Please understand that if you calculate your homework on a weekly basis, it will vary by week because of the different amount of A/B days per week. Obviously, if you have a double blocked class (signature courses), you would simply multiply your daily work by 5 to see how much homework you would have per week. Unfortunately, the exact amount of time students will spend on homework is not an exact science and it will vary by student; therefore, this chart is only a guide and the sole purpose of this is to help students balance their schedules as they consider their courses for the next school year.

CLOCK	DAILY	WEEKLY
	No HW	No HW
	30 min to 1 hr of HW	1 hr to 2 hours of HW
	1 hr to 90 min of HW	2 hrs to 3.5 hrs of HW
	90 min to 2 hrs of HW	3.5 hrs to 4 hours of HW
	2 hrs or more of HW	4 hrs or more of HW

LEVEL CHANGES

- Level changes are only available for courses whose content is presented with different levels of rigor: Algebra II, Calculus, Computer Science, Geometry, Physics, Pre-Calculus, Spanish III, and Statistics.
- Level changes will only be considered at the end of the first six weeks, the first semester, and the fourth six weeks.
- A student may be eligible for a level change if their six weeks or semester average is a 75 or below.
- Once a requested schedule change is approved, it will not be changed back or revisited. See the Student Handbook for further explanation of AISD and LASA schedule change policies.

OFF-CAMPUS PE WAIVER

Off-campus P. E. waivers are one of the many ways in which students may complete the 1 credit of P.E. required for high school graduation. The courses are weighted on a 4.0 scale. Students who chose to earn their credit by Off-campus P. E. waivers may earn a maximum of two credits. To apply for an Off-campus P.E. waiver, the student, parent or guardian should go to the AISD website (http://www.austinisd.org). They should then select Academics, then Curriculum, then Physical Education, then Off-campus P. E. waivers to view a current listing of the approved agencies that provide the programs. Please note that the approved agencies change. Students should download the forms, acquire the required signatures, and then return the form(s) to the LASA Off-Campus P. E. Coordinator, Ms. Bergeron, before the first day of each semester. If a student is planning to take the course the entire year, they should designate that on the form and then submit the form. The Off-Campus P. E. Coordinator then sends the forms to the Physical Education office for AISD. Upon approval, the class(es) are added to the student's schedule. In the event that a student chooses to drop a class, the student is responsible for informing both the provider and the Off-Campus P. E. Coordinator.

PASS/FAIL COURSES

The intent of the pass/fail option is to encourage students to take classes that will intellectually push them without fear of receiving a grade that could potentially be detrimental to their GPA. In order for a student to be allowed to take a class pass/fail, the following criteria must be met:

- The class cannot be a graduation requirement and cannot be used to meet the elective requirement of the student's graduation plan.
- The student must be at risk of failing the course (current grade below a 75).
- Pass/fail requests can be submitted each semester. The paperwork must be submitted no later than the last instructional day of the first six weeks of the first semester.
- Once a student enrolls in a course on a pass/fail basis, the request to take the course on a pass/fail basis may not be rescinded.
- Written approval of the counselor, the teacher, and the parent must be acquired prior to placement in a course on a pass/fail basis.

PRE-AP AND AP COURSES

Pre-Advanced Placement (Pre-AP) Courses:

The Pre-AP program is a level of challenging courses designed to teach students strong study skills and learning strategies. Pre-AP courses are offered in grades 6-10 and are taught by teachers with specialized training. Pre-AP courses emphasize critical thinking, reading, research, and writing, and as appropriate, advanced performance expectations. Pre-AP courses carry weighted grade points.

Advanced Placement (AP) Courses:

The Advanced Placement program is a sequence of college-level courses taught in grades 11-12 by high school teachers with specialized training. AP courses require students to study content for a deeper understanding at a more cognitively complex level. Students have the opportunity to pay a fee to the College Board to take AP Exams in May. AP exam results are used to grant college credit and course placement based on student performance based on policies of individual colleges and universities. AP courses carry weighted grade points.

AP Exams:

These exams give students the opportunity to earn college credit while still in high school. Each AP course is based upon a national course outline equivalent to a first-year college course. At the completion of each AP course taken in high school, students have the opportunity to take the AP exam in that subject. Students may also take AP exams for which they feel prepared even if they have not taken the AP course. AP exams are given only once a year, in May. They are offered at the student's high school campus. Policies for granting college credit based on performance on an AP test vary from college to college. Students should consult college admissions offices to determine individual institution policies.

SCHEDULE CHANGES

- Students are allowed to make schedule changes during the spring, upon receipt of the course request verification sheet, and during summer, upon receipt of the preliminary student schedule.
- Specific teachers cannot be requested. Students are assigned to classes based on requested courses. Teacher assignment is random for those courses that are taught by multiple teachers.
- All schedule changes must be made prior to the end of summer Taking Care of Business Early (TCBE) Days. Due to overloaded class sizes, counselors cannot accommodate "change of mind" and "self-imposed over-committed schedule" change requests. Possible reasons for a schedule change: student has already earned credit for the class in which they are enrolled, the student has not met a prerequisite for the course, ARD/504 committee decision, or a student has failed a course under the same teacher and another teacher is available. All other schedule change requests will not be honored after TCBE Days.

WEIGHTED COURSES

Courses at LASA that factor into grade point averages fall into two categories: Weighted and Unweighted.

Weighted: Pre- Advanced Placement (Pre-AP), Advanced Placement (AP), dual credit, state articulated Tech-Prep credit, magnet, and other TEA and District-identified advanced courses.

Unweighted: With the exception of pass/fail courses, this includes all other courses for which students receive credit. This includes course credits receiving through Credit by Exam and other methods of credit recovery and acceleration.

Grade	Weighted GPA	Unweighted GPA
100	5	4
99	4.9	3.9
98	4.8	3.8
97	4.7	3.7
96	4.6	3.6
95	4.5	3.5
94	4.4	3.4
93	4.3	3.3
92	4.2	3.2
91	4.1	3.1
90	4	3
89	3.9	2.9
88	3.8	2.8
87	3.7	2.7
86	3.6	2.6
85	3.5	2.5
84	3.4	2.4
83	3.3	2.3
82	3.2	2.2
81	3.1	2.1
80	3	2
79	2.9	1.9
78	2.8	1.8
77	2.7	1.7
76	2.6	1.6
75	2.5	1.5
74	2.4	1.4
73	2.3	1.3
72	2.2	1.2
71	2.1	1.1
70	2.0	1
Below 70	0	0

Students can use course codes to determine whether a course is weighted. Courses that include an "H" or "P" are weighted. Courses that included an "R" are un-weighted. Courses that include an "F" are pass/fail courses which are not included in grade point average calculations. Examples of these designations are below.

Course Name	Course Code	GPA Category
Creative Writing	1435.**H**000.Y	Weighted
Office/Teacher Aide	0831.**F**000.X	Pass/Fail
German I	2113.**R**000.Y	Unweighted
AP Human Geography	4523.**P**000.X	Weighted

Distinguished Level of Achievement (DLA) Graduation Plan and LASA Magnet Endorsement Requirements 2018 Graduating Class and Beyond

All LASA students will default to the multidisciplinary endorsement. All LASA students are expected to work towards receiving the Magnet endorsement. As a result, all LASA students will be following a course plan that is more rigorous that the plan required by the Distinguished Level of Achievement Graduating Plan. Successful completion of the LASA Magnet Endorsement will result in the successful completion of the requirements for the following three endorsements: Multidisciplinary; Science, Technology, Engineering, and Math; and Arts and Humanities.

	DLA Requirements		Additional Requirements For The LASA Magnet Endorsement
ELA	**4 Credits**		**AP English III and AP English IV**
	English I	EOC	
	English II	EOC	
	English III		
	English IV		
Mathematics	**4 Credits**		***Four years of math taken at LASA *OR* math through Multivariable Calculus**
	Algebra I	EOC	
	Geometry		
	Algebra II		
	4th Math Class		
Science	**4 Credits**		**Four years of science taken at LASA And Physics *AND* Chemistry or AP Chemistry**
	Biology	EOC	
	Physics ***OR*** Chemistry		
	Two additional science credits		
Social Studies	**3 Credits**		**Four years of Social Studies World Geography *AND* AP World History And At least 3 credits of social studies taken at LASA.**
	World Geography ***OR*** World History		
	US History	EOC	
	US Government		
	Economics		
LOTE	**2 credits in the same language**		**1 more credit in the same language**
P.E.	**1 credit**		**Not Applicable**
Health	**0.5 credit**		**Not Applicable**
Tech Applications	**Not Applicable**		**1 credit from one of the following areas:** Advanced Graphic Design, AVP, BioTech, Intro to Comp Science, AP Computer Science, Digital Electronics, Robotics
Fine Arts	**1 credit**		Not Applicable
Electives	**3.5 credits**		***4 credits from the following Signature Courses:** E-Zine Great Ideas Planet Earth Sci-Tech

*Students entering LASA in 10th grade are still eligible to receive the Magnet Endorsement as long as you complete three years of magnet endorsements.

*Students entering LASA in 11th grade are not eligible for the Magnet Endorsement.

LASA High School Four-Year Plan Worksheet

Use the worksheet below to plan your courses prior to meeting with a counselor. Use the resources provided in this Course Guide to ensure that you are planning for the appropriate courses. Not including alternate electives, your courses should combine for a total of 8 credits per school year. Students who plan to receive credit for before or after school sports and extracurricular activities may exceed 8 credits during those school years.

	9th Grade	**# of Credits**
English	Pre-AP English I	1
Science	Pre-AP Biology	1
Social Studies	Pre-AP World Geography	1
Signature	Electronic Magazine	1
Signature	Science and Technology	1
Math		
LOTE		
Elective Choice		
Elective Alternate 1		
Elective Alternate 2		
Elective Alternate 3		
Elective Alternate 4		

	10th Grade	**# of Credits**
English	Pre-AP English II	1
Science	Pre-AP Chemistry	1
Social Studies	AP World History	1
Signature	Great Ideas	1
Signature	Planet Earth	1
Math		
LOTE		
Elective Choice		
Elective Alternate 1		
Elective Alternate 2		
Elective Alternate 3		
Elective Alternate 4		

	11th Grade	**# of Credits**
English	AP English III	1
Science		
Social Studies (US History or ACC)	AP US History	1
Math		
LOTE (optional if you have 3 LOTE credits)		
Elective Choice		
Elective Alternate 1		
Elective Alternate 2		
Elective Alternate 3		
Elective Alternate 4		

	12th Grade	**# of Credits**
English	AP English IV	1
Science		
Social Studies (govt/econ or ACC)	/	
Math		
LOTE (optional if you have 3 LOTE credits)		
Elective Choice		
Elective Alternate 1		
Elective Alternate 2		
Elective Alternate 3		
Elective Alternate 4		

English Course Offerings

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
CORE	**1013.H000.Y**	Pre-AP English I	1	Year	9	None
	1023.H000.Y	Pre-AP English II	1	Year	10	English I
	1033.P000.Y	AP English III	1	Year	11	English II
	1043.P000.Y	AP English IV	1	Year	12	English III
ELECTIVES	**1439.H000.X**	American Film Analysis	1/2	Semester	10 – 12	English I
	1435.H000.X	Creative Writing	1/2	Fall	10 -12	English I
	1435.H000.Y	Creative Writing	1	Year	10-12	English I
	1435.H200.Y	Creative Writing II	1	Year	10 – 12	Creative Writing
	1438.H200.Y	Hitchhiker's Guide to Sci Fi	1	Year	9 – 12	None
	1849.R000.X	Literary Magazine I	1/2	Spring	10 -12	English I
	1852.H000.X	Literary Magazine II	1/2	Spring	11 -12	English I, Lit Mag I
	1855.H000.X	Literary Magazine III	1/2	Spring	12	English I, Lit Mag II
	1432.H000.X	Music and Revolution	1/2	Fall	10 -12	English I
	1448.H100.Y	Philosophy	1	Year	10 -12	English I
	1438.H000.Y	Psychological Makeup of Hitchcock Characters	1	Year	9-12	None
	1435.H100.X	Screenwriting (semester)	½	Semester	9-12	None
	1435.H100.Y	Screenwriting (year)	1	Year	9-12	None
	1448.H200.X	Song Writing	1/2	Spring	10 – 12	English I
	1438.H100.Y	Women's Literature	1	Year	10 – 12	English I

Pre-AP English I **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: None

The freshman English course is designed to teach critical reading, analytical and expository writing, and vocabulary-building skills. The curriculum not only starts students on the path of collegiate analysis of texts, but also introduces the notion of writing as a craft. To this end, students learn the conventions of scholarly writing, including the use of MLA style documentation as well as grammatical and stylistic norms. Students read and examine texts from a variety of genres, ranging from historical masterpieces to compelling contemporary works. They begin practice in written analysis based on annotations of specific portions of the work, then build from paragraph-level writing to basic compositions. In addition to critical writing, students also engage in periodic creative writing, group projects, and presentations. Students in English I Pre-AP must take the STAAR End of Course Exam.

Pre-AP English II **Credit: 1** **HW Load:** 

Grade Placement: 10

Prerequisite: English I

Tenth-grade English explores some of the foundational works of the Western Canon. Students will cover works from the classical world, the Renaissance, the Age of Reason and the Romantic revolution. These texts are aligned to complement the study of World History in Social Studies. Contemporary poetry, short fiction and non-fiction will be used to "speak back" to these traditional texts. This course builds upon the close reading skills of freshman year, the writing sequence grounding students in a thorough, structured essay style that will form the basis of a convincing scholarly voice for college writing. Students improve the precision and weight of their vocabulary through the systematic analysis of Latin and Greek influence on English language and thought, and learn the conventions of in-class essay writing, in preparation for the AP writing of their junior year.

AP English III	**Credit: 1**	**HW Load:** 
Grade Placement: 11		
Prerequisite: English II		
AP English III is the third step in a sequence that hones the academy student's academic and rhetorical skills. By engaging in several forms of language study – rhetorical analysis, style evaluation, literary criticism, vocabulary and grammar studies – students at the end of their junior year have expanded their strategies for formal and informal college writing. Students read and interpret a wide variety of American writing. They analyze novels, plays, poetry, essays, and short fiction that cause them to read broadly, both for philosophical concerns and stylistic and formal issues. While the course showcases the traditional icons of American literature – Whitman, Fitzgerald, James, Faulkner, Williams, Morrison and Miller, for example – students devote concentrated study to nonfiction writing and rhetorical analysis as well, in preparation for the AP Language test.		

AP English IV	**Credit: 1**	**HW Load:** 
Grade Placement: 12		
Prerequisite: English III		
Modeled after a university literature course, English IV begins by introducing formal first person to student writing, as well as mastering the analytical thesis statement. With British Literature from Chaucer to post-colonialism making up the core readings, students learn the basic elements of the major literary movements as they are linked to cultural and historical context. In addition to extensive practice of the critical reading and analytical writing requirements of the AP English Literature exam, as well as direct teaching of the personal narrative in order to support students through the college application process, students are asked to stand in the place of the critic and level evaluative criticism on a variety of texts, including poetry, short fiction and non-fiction.		

American Film Analysis	**Credit: 1/2**	**HW Load: New Course for 17-18**
Grade Placement: 10-12		
Prerequisite: English I		
American Film is a semester-long elective in which students will explore themes in the history of twentieth century America through the medium of historically significant American movies. A diverse selection of twelve to fifteen films, including *Birth of a Nation*, *The Maltese Falcon*, *Dr. Strangelove*, and even *Rocky* will be the subject of discussion and analysis over the course of each semester.		

Creative Writing	**Credit: 1/2 – 1**	**HW Load: No Data Available**
Grade Placement: 10-12		
Prerequisite: English I		
The student in creative writing defines him or herself as a writer – at least for the duration of the semester. In terms of craft, students engage in writing exercises that hone skills that are non-genre specific, such as voice, specific detail and point of view, as well as use professional contemporary writers as models for study and for original work. Most importantly, though, the course focuses on the development of personal writing projects designed by the student. Some work on short collections of poetry, others fiction and still others memoir or drama. After students begin work on their projects, the focus on activity shifts from exercises to whole class writing workshops and revision.		

Creative Writing II	**Credit: 1**	**HW Load: New Course for 17-18**
Grade Placement: 10-12		
Prerequisite: Creative Writing		
This rigorous workshop-seminar provides experience in writing in several genres. Students engage in an editing and revision process designed to produce error-free compositions suitable for publishing. Students examine important examples of literature in relevant genres as models and as subjects for technical analysis. Students also will collect and present literary discoveries from their own reading and writing. Participation in public readings and writing competitions is required.		

Hitchhiker's Guide to Science Fiction **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: None

*Don't panic! This is the course the science fiction aficionado has been waiting for: a room full of sci fi fans who can't wait to discuss their favorite books and series. Our time is limited, but we will explore some of the following texts: Ender's Game, The Left Hand of Darkness, The Martian Chronicles, The Hitchhiker's Guide to the Galaxy, Do Androids Dream of Electric Sheep, Firefly, Battlestar Galactica, Doctor Who… We'll also leave room in the course for you to explore your own interests. From dystopian super cities to rebellious androids to space cowboys, we've got you covered! Students will do some analytical writing, however the class primarily revolves around discussion, informal journal responses, and creative projects.

Literary Magazine I, II, and III **Credit: 1/2 (Semester)** **HW Load: No Data Available**

Grade Placement: 10-12

Prerequisite: English I

Working with submissions from the entire student body, the literary magazine staff creates a literary magazine from raising funding, working with the printing company, editing, design, and layout. Divided by genre, students are under the guidance of department editors and then an executive editor. In addition, this course also sponsors a school-wide writing workshop. The superior work product generated by this class exemplifies the collaborative talents of LASA's humanities students.

Music and Revolution **Credit: 1/2 (Semester)** **HW Load: No Data Available**

Grade Placement: 11-12

Prerequisite: English I

This is a semester-long elective that examines various topics in American popular music from 1840 to the present. Though obviously not comprehensive, it is a survey of many important genres, such as minstrelsy, vaudeville, work songs, spirituals, ragtime, country and classic blues, jazz, swing, bop, mambo, cool jazz, free jazz, soul, R&B, country, bluegrass, and punk rock. Special emphasis is given to the socio-cultural context of American popular music.

Philosophy **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: English I

This full-year elective introduces students to some of the most influential epistemological, ontological, and political philosophies throughout history. The course begins with the ancient Greeks who form the basis of Western philosophy, including the natural philosophers, Socrates, Plato and Aristotle. The course will move in a primarily chronological way through medieval European theologians such as St. Thomas, St. Augustine, and Boethius to Age of Reason thinkers such as Descartes, Berkeley, Hume, Kant, Rousseau, Locke, Wollstonecraft, Jefferson and others. Nineteenth-century philosophers such as Hegel, Heidegger, and Kierkegaard will be included as well as political thinkers such as Marx and Hobbes. Existentialists Sartre and Nietzsche, anarchists Kropotkin and Goldman, contemporary philosophers such as Chalmers and Dennett will also be featured. Each semester, students will also choose a philosopher to research and present to the class. Religious assertions, like other philosophical ideas, will be approached from the angle of how one perceives, creates and affects the self through the lens of belief. Exploring these ideas will provide students with a framework for analyzing their own existing beliefs, encouraging critical, meta-cognitive thinking and a more comprehensive view of philosophical trends throughout world history. In the process, students will explore and challenge their own beliefs about self and its definition and creation, including writing in which students define their own philosophies.

Psychological Makeup of Hitchcock Characters **Credit: 1** **HW Load: New Course for 17-18**

Grade Placement: 9-12

Prerequisite: None

The goal of this course is to examine the motivations behind some of Hitchcock's most famous characters. We will look at a variety of texts including but not limited to: the screenplays, the original novels, and analysis of Hitchcock's own motivations as a director and as a cultural icon in the film industry. We will discuss and learn about the dominant ideologies present within his films and in the time period in which they were released and learn how this applies to American culture. Further, we will examine the structure and choices screenwriters and directors make in order to tell a story to their audience and ensure that audience fully invested in these characters we all know so well by now.

Screenwriting	**Credit: 1/2 – 1**	**HW Load: No Data Available**
Grade Placement: 9-12		
Prerequisite: English I		
Screenwriting requires the writer to tell stories visually. We will learn to write for the screen by watching and studying feature films and their scripts. We will work to develop voice and style as write short films that can later be produced by the Audio Video Production classes. Students that wish it, will have the opportunity to write a longer, feature film as well.		

Song Writing	**Credit: 1/2**	**HW Load: No Data Available**
Grade Placement: 10-12		
Prerequisite: English I		
Students learn how to write and perform their own songs. Every three weeks each student performs a new original composition (live or recorded) for the class. We workshop the songs, improving the quality of the music and building confidence in performance. By the end of the school year each student will have written an album's worth of songs. In the fall semester the class learns the history of modern recorded music, listening to everything from Al Jolson to Daft Punk. We listen to and discuss examples of many musical genres: classical, opera, Tin Pan Alley, hymns, work songs and protest songs, blues, Dixieland, ranchero, jazz, Broadway, polka, gospel, swing, hillbilly, rock and roll, surf, country, folk revival, conjunto, soul, R&B, punk, disco, rock, house, hip-hop, electronic, and many others. Various writing and performance projects, collaborative and individual, round out the curriculum. No previous musical experience required.		

Women's Literature	**Credit: 1**	**HW Load:** 
Grade Placement: 10-12		
Prerequisite: English II		
In this course we will read poetry, prose, fiction, and non-fiction by and about women. Starting with the ancient Greek poet Sappho, we will explore works from around the world and end up in contemporary America with political activist Gloria Steinem to get an overview of the role of women in literature. By taking a historical approach the students will have the opportunity to analyze and research the feminine perspective. Hand in hand with a historical approach we will consider the psychology of women specific issues before and since the women's rights movement.		

Mathematics Course Offerings – courses with an * must have a teacher's signature on choice sheet

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
MATH CORE	3313.H000.Y	Pre-AP Algebra I	1	Year	9 -12	8th Grade Math
	3413.H000.Y	Pre-AP Geometry	1	Year	9 -12	Algebra I
	3413.H100.Y	Geometry with Bonus Content	1	Year	9 -12	Algebra I
	3323.H000.Y	Pre-AP Algebra II	1	Year	9 -12	Algebra I, Geometry
	3323.H100.Y	*Algebra II with Bonus Content	1	Year	9 -12	Algebra I, Geometry
	3633.H000.Y	Precalculus AB	1	Year	9 -12	Alg I, Geo, Alg II
	3633.H100.Y	*Precalculus BC	1	Year	9 -12	Alg I, Geo, Alg II
MATH ELECTIVES	3510.H000.Y	*Adv Math Reasoning	1	Year	10 -12	Algebra II
	3613.P000.Y	*AP Calculus AB	1	Year	10 -12	Precalculus
	3616.P000.Y	*AP Calculus BC	1	Year	10 -12	Precalculus
	3628.P000.Y	*AP Statistics	1	Year	10 -12	Algebra II (precal recommended)
	3807.H000.X	*Computational Problem Solving	1/2	Spring	10 -12	Algebra II
	3644.H000.Y	*Differential Equations	1	Year	10 -12	concurrent BC Calc
	8375.HC0C.Y	*Financial Mathematics	1	Year	10 –12	Alg II & concurrently w/another math course
	3625.H000.X	*Linear Algebra	1/2	Fall	10 -12	Precalculus
	3510.H000.X	*Logic, Set Theory, and Proofs	1/2	Fall	10 -12	Precalculus
	3646.H000.X	*Multivariable Calculus	1/2	Spring	10 -12	Calculus
	3463.H000.X	*Number Theory	1/2	Spring	10 -12	Precalculus
	3510.H900.Y	*Stats II	1	Year	11-12	Stats I (Calc recommended)

Pre-AP Algebra I **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: None

In high school Algebra I, students deepen their understanding of relations and functions and expand their repertoire of familiar functions. Students use technological tools to represent and study the behavior of linear and beginning of quadratic functions, among others. They learn to combine functions, express them in equivalent forms, compose them, and find inverses where possible. Algebra I also provides students with insights through the content strands of linear functions equations, and inequalities, quadratic functions and equations, exponential functions and equations, and number and algebraic methods. This is a Pre-AP course so the content is in greater depth and may include additional topics.

Pre-AP Geometry **Credit: 1** **HW Load:** 

Grade Placement: 9-11

Prerequisite: Algebra I

This course provides students with a firm foundation in plane, solid and coordinate geometry with an emphasis on deductive reasoning and formal proof. The course is designed to expose students to an axiomatic system, requiring strong mathematical justifications while developing geometric intuition and problem solving skills.

Geometry with Bonus Content **Credit: 1** **HW Load:** 

Grade Placement: 9-11

Prerequisite: Algebra I

Level 5 Pre-AP geometry covers all of the material in the standard Pre-AP Geometry course, but moves at a faster pace to allow time to investigate a standard topic in more detail as well as study additional topics. Some typical additional topics include: formal logic, non-Euclidean geometry, and basic analytical geometry. This class also offers a deeper historical focus and includes a writing component.

Pre-AP Algebra II **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: Geometry

Students reexamine axioms and properties of algebra; study linear, quadratic, and higher degree polynomials and their graphs; and review operations with rational statement, methods of factorization and operations with radicals. Students also review systems of equations. Students are also introduced to higher order systems, matrices and determinants, linear programming, sequence and series, binomial theorem, conic sections, permutations and combinations, logarithmic and exponential functions, basic concepts of probability, and elementary statistics.

Algebra II with Bonus Content **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Geometry

Students reexamine axioms and properties of algebra; study linear, quadratic, and higher degree polynomials and their graphs; and review operations with rational statement, methods of factorization and operations with radicals. Students also review systems of equations. Students are also introduced to higher order systems, matrices and determinants, sequence and series, binomial theorem, conic sections, logarithmic and exponential functions, basic concepts of probability, and elementary statistics. Additional topics include alternative number systems and other mathematical structures. Students are expected to be able to master some concepts through independent reading and practice, allowing class time to be used for further explorations of the curriculum with increased depth and rigor. Emphasis is placed on practical application and theoretical understanding of the content.

Precalculus AB **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Algebra II

The precalculus course is designed to prepare students to move into an AP Calculus or AP Statistics class the following year. Emphasis is on function analysis with a particular attention paid to trigonometric functions in the fall and exponential, logarithmic, and rational functions in the spring. In addition, students are taught elementary techniques for data analysis using the TI-84 calculator and Microsoft Excel.

Precalculus BC **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Algebra II

The BC precalculus class is designed to prepare students to move into the AB or BC Calculus class the following year. Topics covered include polynomial, rational, exponential, logarithmic, and trigonometric functions. In addition students explore polar and parametric representations of functions. In anticipation of BC Calculus, students are also introduced to sequences and series, limits, and derivatives.

Advanced Mathematical Reasoning **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Algebra II

This course is an exploration of the methods and techniques mathematicians use to articulate their ideas. Course topics include: graph theory, modular arithmetic, base b arithmetic, elementary probability and statistics, binomial theorem and Pascal's Triangle, number systems, and types of infinities. Material is not comprehensive and is assessed in a variety of ways including student presentation, group projects, and individual quizzes. The class is taught in an inquiry-based format and group work is an integral component of a student's grade. This course is appropriate as an alternative to Precalculus, especially for students not pursuing mathematics/intensive fields.

AP Calculus AB **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Precalculus

This course is intended for students who have a familiar knowledge of analytic geometry, elementary functions, algebra and trigonometry. This is a one-year calculus course, which prepares students for the AB level Advanced Placement examination in calculus. In most universities, a recommended score on the AB exam will give students credit for one semester of college calculus. This course is devoted primarily to differential and integral calculus. Students are exposed to appropriate technology, such as graphing calculators, to assist them in their study.

AP Calculus BC **Credit: 1** **HW Load:** 

Grade Placement 10-12

Prerequisite: Precalculus and Concurrent Enrollment in Differential Equations

This course is intended for students who have a thorough knowledge of analytic geometry, elementary functions, algebra, and trigonometry. Passing the BC Advanced Placement examination awards students with a year's credit in college calculus. In addition to the topics presented in Calculus AB, this course includes vector functions, parametrically defined functions, polar functions, rate of change word problems, Taylor and Maclaurin series, and the use of calculators where appropriate.

AP Statistics **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Alg II (Precal recommended)

This course is equivalent to a one-semester, introductory, non-calculus based college course in statistics. Such a course is typically required for majors in engineering, psychology, the health sciences, and business. Science and mathematics majors usually take an upper division calculus based statistics course, for which this course will be effective preparation. Students are introduced to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students also develop technical writing skills throughout the course and learn how to compose clear arguments and explanations with supporting evidence from mathematical computations. The use of several inquiries throughout the course will develop a student's ability to execute a well-designed experiment to collect and analyze data on a meaningful question about the world. Both a TI graphing calculator and R, an open source programming language and software for statistical computing, will be extensively used throughout the course.

Computational Problem Solving **Credit: 1/2** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Algebra II

The goal of this course is to expose students interested in STEM careers to the primary tools of their trades (i.e., to address the problem that educators typically emphasize pencil-and-paper understandings of mathematics without providing instruction regarding the relevant computing that accompanies the concepts in the real world). You will use the mathematical insights you've already developed and learn to solve non-trivial problems with computers. In addition, you will learn a little possibly new algebra and number theory, which will allow you to learn about cryptology--an intriguing coalescence of mathematics and computer science. No prior programming experience is required.

Differential Equations **Credit: 1/2** **HW Load:** 

Grade Placement 10-12

Prerequisite: Precalculus and Concurrent Enrollment in AP Calculus BC

Topics include solving first order differential equations using separation of variables, homogeneous functions, exact equations, integrating factors, and elementary applications as well as solving high order linear differential equations including methods of undetermined coefficients and variation of parameter.

Financial Mathematics **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Algebra II & Concurrent w/another math course

The first two-thirds of this weighted course will focus on an overview from the individual and family perspectives of financial planning tools, cash flow and budgeting, employment and banking, consumer credit and loans, federal income taxation, housing, insurance selection, retirement planning, and investing. The last third of the course will be a study of topics in financial statistics such as regression, correlation, normal distributions, prediction models, forecasting, and time-series analysis. Students will apply critical thinking skills to analyze financial decisions based on current and projected economic factors. Readings and case studies will be extensively used throughout the course and students will have multiple opportunities to practice real-life tasks that they will soon be responsible for doing as adults. A final project in the spring semester in lieu of an exam will showcase students' personal interests in the study of finance as they use their knowledge and understanding to both pose and answer their own research question.

Linear Algebra **Credit: 1/2** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Precalculus (Calculus strongly recommended)

This is a one semester introduction to linear algebra. Course topics include row reduction, determinants, linear transformations, inverses, images, kernels, vector spaces and subspaces, dimension, eigenvalues, and eigenvectors. Emphasis is placed on algebraic abstraction over practical application. Time is spent in class developing proof techniques and some proof writing is required. Students will frequently be required to work together in groups.

Logic, Reasoning, and Proof **Credit: 1/2** **HW Load:** 

Grade Placement: Any

Prerequisite: Algebra 2

This course is divided into four units: truth-functional logic, quantificational logic, functions, and induction. It will cover the development and applications of symbolic logic, as well as several useful proof theories. Students will learn what constitutes appropriate proof and disproof of claims. This course is interested not only in the application of logic, but also its limitations. Students will complete projects in which they are able to pursue topics of their own interest—such as mathematics, computer science, philosophy, law, etc.—and abstract the underlying logical structures, from which logical reasoning and proof will extend their understanding of the subject. This interplay between abstraction and application will be another constant in the course.

Multivariable Calculus	**Credit: 1/2**	**HW Load: No Data Available**
Grade Placement: 11-12		
Prerequisite: Calculus (Linear Algebra strongly recommended)		
This course is a one semester course in vector calculus. Topics include: vectors, partial derivatives, multiple integrals, vector fields, line integrals, surface integrals, Green's Theorem, curl and divergence, and Stoke's Theorem. Emphasis is placed on problem solving techniques and applications to other disciplines (such as physics, economics, statistics, etc…)		

Number Theory	**Credit: 1/2**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: Precalculus (Logic, Reasoning, and Proof strongly recommended)		
This is an inquiry based first course in number theory modeled after the one semester course offered to undergraduates at the University of Texas at Austin. Course topics include prime numbers, unique factorization, modular systems, Diophantine equations, divisibility, quadratic congruencies, the Chinese Remainder Theorem, mathematical induction, and the euler-phi function. Emphasis is placed on learning to construct and write rigorous mathematical proofs.		

Statistics II (Toopics in Upper-Level Statistics)	**Credit: 1**	**HW Load:**	**NEW Course for 17-18**
Grade Placement: 11 – 12			
Prerequisite: AP Statistics & Pre-Calculus (Calculus preferred, but not required)			
This second-year topics course in statistics is equivalent to two semesters of upper division statistics at the college level and will appeal greatest to students interested in pursuing a data science, mathematical statistics, actuarial sciences, or biostatistics major. Many of the concepts studied will include a deeper analysis of introductory concepts presented in AP Statistics such as probability models, confidence intervals, hypothesis testing, and regression analysis. Additional topics studied will include one-way ANOVA, two-way ANOVA, bootstrapping, multiple linear regression, advanced probability distributions (poisson, hypergeometric, and exponential), logistic regression, model building, time series analysis and forecasting, and nonparametric statistical methods. Students will be expected to gain information from assigned readings as well as in-class discussions and lectures to apply to class projects and presentations which will be a large component of the course. Students will also advance their understanding of R as it will be used extensively throughout the course as the main method of statistical computations and analysis.			

Science Course Offerings - courses with an * must have a teacher's signature on choice sheet

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
CORE	4123.H000.Y	Pre-AP Biology	1	Year	9	8th Grade Science
	4323.H000.Y	Pre-AP Chemistry	1	Year	10	Pre-AP Biology
	4435.P000.Y	AP Physics	1	Year	11	Pre-AP Chemistry or Chemistry
ELECTIVES	8426.HC0C.Y	*Anatomy and Physiology	1	Year	11 - 12	Biology; Chemistry
	4137.P000.Y	AP Biology	1	Year	10 -12	Biology; Chemistry
	4334.P000.Y	AP Chemistry	1	Year	10 -12	Chemistry or placement test
	4237.P000.Y	AP Environmental Science	1	Year	11 - 12	Biology; Algebra I
	4438.P000.Y	AP Physics C	1	Year	11 - 12	Physics
	4436.P000.Y	AP Physics II	1	Year	10 – 12	AP Physics Whole
	4239.H000.Y	Astronomy	1	Year	11 - 12	Biology; Chemistry
	8686.NC00.Y	Bio Technology	1	Year	11 - 12	Biology; Algebra I
	8718.NC00.Y	Bio Technology Internship	1	Year	12	Bio Technology
	8688.RC0C.Y	Engineering Design	1	Year	11 -12	Physics
	8582.RC0C.Y	Forensic Science	1	Year	11 - 12	Biology; Chemistry
	8428.HC0C.Y	*Medical Microbiology	1	Year	11 - 12	Biology; Chemistry
	4429.H000.Y	Modern Physics	1	Year	12	Physics; Calculus Recommended
	8716.HC0C.Y	*Organic Chemistry	1	Year	11 - 12	Biology; Chemistry
	8722.HC0C.Y	*Organic Chemistry - Advanced	1	Year	12	Organic Chemistry
	8430.HC0C.Y	*Pathophysiology	1	Year	12	Anatomy and Physiology
	8716.HC2C.Y	The Wicked Problem Project	1	Year	11 -12	Chemistry or concurrent w/chem
	8716.HC3C.Y	The Wicked Problem Project II	1	Year	12	Wicked Problem Project I

Pre-AP Biology **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: 8th grade Science

Imagine a course in which you learn about biomolecules, gel electrophoresis of DNA, bacterial cultures, fermentation of yeast, photosynthesis; discover the microscopic world of protists and bacteria, learn about emerging diseases and their consequences, cell division and its application to diseases such as cancer, and explore the medicinal possibilities of plants. This is a course in which students focus on topics in biotechnology, microbiology, immunology, genetics, and plant molecular biology. Computers are used for research, data analysis and lab simulations. Interdisciplinary projects that explore the social, literary, and historical impact of science are done in both semesters.

Pre-AP Chemistry **Credit: 1** **HW Load:** 

Grade Placement: 10

Prerequisite: Biology

Chemistry includes the in-depth study of the measurement of matter and energy, atomic structure, chemical formulas, chemical equations, bonding, kinetic theory, thermochemistry, gases, solutions, equilibrium, nuclear chemistry, and organic chemistry. The course emphasizes field and laboratory experiments. Texas law requires 40% field and laboratory experience during the course.

AP Physics **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Algebra II completion or concurrent.

Students that take AP Physics 1&2 will be prepared to take the Physics 1 exam and/or the Physics 2 exam. The Physics 1 exam is equivalent to a first-semester college course in algebra-based physics. The Physics 2 exam is equivalent to a second-semester college course in algebra-based physics. Topics covered range from Newtonian mechanics, work, energy, and power; mechanical waves and sound, thermodynamics, electricity and magnetism, optics, atomic and nuclear physics. This class focuses on inquiry-based learning and the ability to reason about physical phenomena using important science process skills such as explaining causal relationships, applying and justifying the use of mathematical routines, designing experiments, analyzing data and making connections across multiple topics within the course and in other science disciplines.

Anatomy and Physiology **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Biology and one other science course; Chemistry recommended.

Exercise, disease, food choices, ageing -- how do these affect your body? Bioengineering, sports medicine, animal rights, organ transplants, and medical ethics are some of the topics explored in Anatomy and Physiology. We use sophisticated equipment to measure muscle strength, electrical activity of the heart, reflexes, and respiratory volumes. We dissect cats to study body structure and organization, we test the effect of drugs on heart rate, and we explore various organisms to evaluate different body systems. Current issues, such as the biomedical applications of nanotechnology, cloning, the use of modern drugs to regulate behavior, and the physiology of the human body in space are other topics addressed in this yearlong course. Computers will be employed to create multimedia presentations to explore different aspects of human physiology.

AP Biology **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Biology; Anatomy and Physiology highly recommended

This year long course is for students who have a high interest in biology and want to go beyond the first year Biology course. The course stresses topics in biochemistry and genetics, and includes labs using Polymerase Chain Reaction, gene sequencing, and agarous and polyacrylamide gel-electrophoresis. It is suggested that students taking this course have previously taken or are concurrently taking Anatomy and Physiology. AP Biology is a college-level course, which will enable students to place out of college biology.

AP Chemistry **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Biology and Chemistry

AP chemistry is a college level study of organic chemistry, thermodynamics, electrochemistry, macromolecules, colloids, and properties of solutions. It emphasizes mathematical quantification, statistical evaluation of data and independent investigative skills. This course helps to prepare students for the AP examination.

AP Environmental Science **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Pre-AP Physics

What is all the fuss about Ozone Action Days? How did human alteration of the landscape contribute to the destruction wrought by Hurricane Katrina? What did the environment of the Austin area look like before there was a city and what changes accompanied settlement of the area?

These are the kinds of questions investigated in Advanced Placement Environmental Science (APES). "The APES course is designed to be the equivalent of a semester, introductory college course in environmental science. The goal of the APES course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternatives for resolving or preventing them" (from the College Board course description). While the class prepares students to pass the AP test, field and laboratory work are emphasized. A preserve three blocks from the school is the scene for much of the field work. Field trips can focus on soil biology, water quality, landfills, sewage treatment, green building techniques, energy production, ecological restoration, and bird migration. In addition to a college textbook, Jared Diamond's Collapse (the sequel to Guns, Germs and Steel) is provided to APES students.

AP Physics C **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Completion of Pre-AP Physics or AP Physics B. Calculus completion or concurrent.

This college level calculus-based physics class prepares students for the C-level Advanced Placement Exam in physics. Topics in the first semester study of mechanics include Newton's Laws, conservation of energy and linear and angular momentum, simple harmonic motion, and gravitation. Topics in the second semester study of electricity and magnetism include electrostatics, Gauss' Law, Ampere's Law, magnetic induction, electric circuits, and Maxwell's Equations. The combination of this course and Calculus B-C is an excellent preparation for college study in the physical sciences and engineering.

AP Physics II **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: AP Physics 1 Whole

Students explore principles of fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. The course is based on seven Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Students will be prepared to take the AP Physics 2 exam.

Astronomy **Credit: 1** **HW Load:** 

Grade Placement: 11 – 12
Prerequisites: Physics (taken or currently taking)

Astronomy is a year-long course in which students will develop an appreciation, thorough understanding, and ongoing curiosity about the mysterious, intense, and magnificent Universe and humankind's place in it. The course is comprised of a mix of lectures and student-driven research projects, both individual and group.

Topics covered include but are not limited to: the history of astronomy, stellar mapping and coordinates, orbits, gravity, and relativity, the electromagnetic spectrum and quantum mechanics, the Earth/Moon system, the solar system, stars, galaxies, constellations, black holes, cosmology, and human endeavors in space. Some units of instruction involve mathematics (algebra-based), while others are conceptual. The student will become familiar with the night sky and objects in it. The student will be required to attend at least one evening of nighttime star observing during the academic year.

Biotechnology	**Credit: 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: Biology, Chemistry, Algebra II		
This course is an introduction to biotechnology. It includes a survey of the following topics: the history of biotechnology, the use of DNA/RNA technologies, the use of protein technologies, bioinformatics, medical biotechnologies, agricultural biotechnologies, molecular biology, and bioethics. The course is 40 % laboratory exercises. This course counts as a 4th year science elective and can be taken in 11th grade concurrent with physics or in 12th grade. This course is dual enrollment with Austin Community college. Students receiving a passing grade will receive a high school science credit as well as 4 hours of ACC credit.		

Biotechnology Internship	**Credit: 1**	**HW Load: No Data Available**
Grade Placement: 12		
Prerequisite: Biotechnology		
The Research Internship course is senior level course. This is a formal internship experience where students are supervised by a university or industry mentor and apply their advanced biotechnology knowledge and training in a bioscience laboratory. This is an experience external to the LASA campus for advanced students in the biosciences. Students report to their internship off campus and are mentored and supervised as they work on a research project. The course is eligible for Dual Credit through Austin Community College (course code BITC 2486). Students that sign up for this course should meet with Mr. Oleniczak to discuss their internship as soon as possible.		

Engineering Design	**Credit: 1**	**HW Load:** 
Grade Placement: 11 – 12 **Prerequisites: Physics (taken or currently taking)**		
AKA "SciTech Part 2", Engineering Design was created to meet the needs of LASA students who are dedicated to furthering their training in the field of engineering and applied physics. Engineering is simply the act of informed and creative problem-solving. This course challenges students to apply the knowledge they acquire in their math and science classes to real situations, utilizing skills ranging from project management and perseverance to 3D computer design and safe power tool operation. Students should expect a rigorous schedule and workload both in and outside of class. Much like in SciTech, the expectations are high but the reward of successful accomplishment is higher still.		

Forensic Science	**Credit: 1**	**HW Load:** 
Grade Placement: 11 – 12 **Prerequisites: Biology and Chemistry**		
Forensic Science is a laboratory-based course in which students will apply their prior knowledge of biology, chemistry, and mathematics to the popular field of crime scene investigation. Students will use a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, trace evidence, DNA and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.		

Medical Microbiology **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Biology

This lab oriented course studies the organisms that cause disease. It is highly recommended for those individuals interested in a medically oriented field, biological research, or interest in the organisms that cause disease. Students will learn lab techniques to enable them to culture and identify various bacteria, fungi, and viruses. We explore current topics including emerging and re-emerging diseases such as SARS, West Nile, and AIDS; bioterrorism and the types of microbes being used, why they're dangerous, and how to protect against them; and drug use and antibiotic resistance. Students will gain an understanding of the immune system and how it protects the body and the counter mechanisms by which microbes overcome those defenses. Field trips include visits to the State Health Department and the Blood and Tissue Center of Central Texas.

Modern Physics **Credit: 1** **HW Load:** 

Grade Placement: 12

Prerequisite: Pre-AP Physics or AP Physics B.

This second course in physics is designed to provide students with an overview of developments in physics since approximately 1900. Beginning with the outstanding problems in the field in the late 19th century the student studies the foundations and consequences of the revolutions in relativity and quantum mechanics. Topics include cosmology, the big bang, black holes, elementary particles, unified field theory, the standard model, solid state, and nanotechnology. Topics to be studied vary with input from the students. A survey of the literature and student research is an integral part of the course.

Organic Chemistry **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Biology and Chemistry

The course is structured as a college-level introductory organic chemistry course. If the course succeeds for the student, he or she will leave with a sound knowledge of organic chemistry, some insight into the workings of the material world and how humans can discover them, and a better appreciation of the logic of creative science and of how scientists really work.

First semester topics include introductory chemical nomenclature, chemical structure and bonding, acid-base relationships, mechanistically simple organic reactions, and introductory organic synthesis. First semester laboratory exercises include hands-on introductions to techniques such as crystallization, distillation, extraction, and chromatography.

Second semester topics include advanced chemical nomenclature, theoretical aspects of structure determination, organic reactions and syntheses of increased complexity, and introductory biochemistry. Laboratory exercises focus on organic reactions, synthetic techniques, modern spectroscopic techniques such as IR and NMR, and structure elucidation of complex unknowns. Students will participate in a field trip to the organic chemistry teaching laboratories at The University of Texas at Austin to analyze experimental product using advanced spectroscopic equipment.

Organic Chemistry – Advanced	**Credit: 1**	**HW Load:**
Grade Placement: 11-12		
Prerequisite: Organic Chemistry		
This elective course is a structured independent study in organic chemistry. The primary goal for this course is to allow students to pursue the more advanced topics contained in the second semester of undergraduate organic chemistry. A secondary goal for this course is to cultivate skills in self-directed learning and mentorship of other students. If the course succeeds for the student, he or she will leave with a comprehensive knowledge of organic chemistry, sufficient for most pre-professional programs in the biological and chemical sciences, and valuable skills in creativity and problem-solving.		
The focus of the course content is on reactions, reaction mechanisms, and multistep synthesis. First semester topics include substitution and elimination reactions, radical reactions, aromatic reactions, and nucleophilic acyl substitution. The focus of the second semester is on more complex carbonyl chemistry, organometallic chemistry, oxidations and reductions, and bioorganic chemistry.		
The main goal of the laboratory section of the course is for advanced students to serve as teaching assistants to first-year organic chemistry laboratory students. This will consist of diligent mentorship of first-year students during all laboratory periods. During the spring semester, students will also conduct a formal laboratory experiment in association with a field trip to the teaching laboratories of The University of Texas at Austin		

Pathophysiology	**Credit: 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: Anatomy and Physiology		
This year-long class studies human disorders. It is recommended for students who are interested in a medically oriented field or those with an interest in biology or specifically in human diseases. We perform diagnostic tests of urine , and correlate these data to kidney function and to diseases of the body. Students perform diagnostic blood tests for measurement of metabolic health. We run and interpret EKGs to learn about alterations of the cardiovascular system, and we use case studies to evaluate different disease states in the various organ systems. To study various neurological disorders, students will perform skits demonstrating those abnormalities. Students should have taken Anatomy and Physiology before taking this course.		

The Wicked Problem Project	**Credit: 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: Chemistry or concurrent w/chem		
You will to take on a real world problem and create new and unique solution. You and a group will choose a complex "wicked" problem that impacts society and try to develop a novel solution. During the process you'll be guided on how to solve the problem, write a guiding question, develop a proposal, and write a grant – all to develop and implement that great solution. Will your solution succeed? Is it the "right" answer to the question? Who knows- but you WILL have the opportunity to find out and evaluate your peers.		

The Wicked Problem Project II	**Credit: 1**	**HW Load: New Course for 17-18**
Grade Placement 12		
Prerequisite: Wicked problem Project		
An opportunity for students from Wicked Problem to continue to fine tune their project and implement on a larger scale, or begin a second project.		

Social Studies Course Offerings

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
CORE	4513.H000.Y	Pre-AP World Geography	1	Year	9	8th Grade SS
	4623.P000.Y	AP World History	1	Year	10	Pre-AP World Geography
	4733.P000.Y	AP US History	1	Year	11	AP World History
	4841.P000.X	AP Government	1/2	Fall or Spring	11 - 12	AP US History or ACC US History
	4946.P000.X	AP Macroeconomics	1/2	Fall or Spring	11 - 12	AP US History or ACC US History
ELECTIVES	5051.P000.Y	AP Art History	1	Year	10 – 12	None
	4842.P000.X	AP Comparative Government	1/2	Semester	11 -12	AP US History (or concurrent enrollment)
	4635.P000.Y	AP European History	1	Year	11 - 12	World History
	4523.P000.Y	AP Human Geography	1	Year	10 -12	World Geo; World Hist
	4945.P000.X	AP Microeconomics	1/2	Spring	12	None
	4938.P000.X	AP Psychology (Part I)	1/2	Fall	11 - 12	with 4938.H000.X
	4935.H000.X	AP Psychology (Part II)	1/2	Spring	11 - 12	with 4938.P000.X
	4942.H000.X	Amateur Radio	1/2	Fall or Spring	10 - 12	None
	4932.H100.X	Constitutional Law	1/2	Fall or Spring	11 - 12	None
	4932.H200.X	Contemporary Issues	1/2	Fall or Spring	11 - 12	None
	4932.H300.X	Facing History	1/2	Fall or Spring	11 - 12	None
	4932.H000.X	Mock Trial	1/2	Fall or Spring	10 - 12	None
	4942.H100.X	Model United Nations I	1/2	Fall or Spring	10 -12	World Geography
	4942.H200.X	Model United Nations II	1/2	Fall or Spring	11 - 12	Model UN I
	4942.H000.X	Native American History	1/2	Fall or Spring	11 – 12	APush or concurrent enrollment
	4932.R000.X	Street Law	1/2	Fall or Spring	10 - 12	None

Pre-AP World Geography **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: None

The purpose of this course is to provide students with a global understanding of the world. Although we will spend time with physical geography, the main focus will be on human/cultural geography. The units we will cover include physical geography, population, disease, resources, economics, culture, religion, and international conflicts. In order to place topics into a contemporary context and to ensure that students have a working knowledge of place and location, the course will draw heavily from current events. These events will also serve as a vehicle for teaching human geography concepts such as political change, border/land disputes, the development and diffusion of religions, and technology and customs. Students will also gain an understanding of international organizations such as the United Nations, the European Union, the World Bank, and NATO. Students will participate in Socratic Seminars/ discussions in which they will be asked to think critically about world issues and to engage in dialogue with their peers. Students will also be expected to create high quality projects and presentations, both individually and in groups, with a variety of media.

AP World History **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: World Geography

The purpose of this course is to provide students with a clear and personal understanding of the human past. Using primary sources as our main text, students are encouraged to think somewhat independently of chronology as they are introduced to the struggle between historical truth and historical interpretation, and to compare their own concept of history to those of major historians. Recurring themes, such as gender roles, the concept and organization of power, and cultural and social adaptation will be studied in terms of historical theory and as evolving features of human society. With an emphasis on historical research and inquiry as opposed to simply content, the class will focus on understanding the significance of historical events within their contemporary contexts, and analyzing the ramifications of those events for future generations.

AP U.S. History **Credit: 1** **HW Load:** 

Grade Placement: 11

Prerequisite: None

A college-level survey in United States History, this course culminates with the AP examination in May. In content, it covers the history of the United States from 1492 to the present, with special emphasis on topics and time periods relevant to the AP exam. In addition to substantial readings from the adopted text, this course will involve extensive outside reading from both primary and secondary sources, analysis of documents and essay writing, and special emphasis is placed on topics such as political theory, historiography and historical research methods. In addition, students will complete several projects, based on investigations of specific historic events, throughout the year. Strong emphasis will be placed on the writing and critical thinking skills essential to success on the AP examination.

AP Government **Credit: 1/2** **HW Load:** 

Grade Placement: 11-12

Prerequisite: US History

This is a rigorous, college-level course; instruction is aligned with the College Board curriculum's thematic approach. As such, students are given instruction in areas such as: Foundations of the Constitution, The Rise of the All-Powerful Supreme Court, Domination by Congress, Imperial Presidents, Political Parties and Voter Demographics, Voting, and Money, Media, and Elections.

Through direct instruction, supplemental readings of current events, relevant videos and media clips, and class discussion, students explore these areas in the context of both history and the present. Because real-world experience is enlightening, students are often required to work on campaigns or interview lobbyists/ representatives. Also, guest speakers, such as local U.S. Representatives, are enlisted when available. The ultimate goal of this course is not passing the AP, but rather crafting a citizen upon which the United States can depend on to lead us into the future.

AP Macroeconomics **Credit: 1/2** **HW Load:** 

Grade Placement: 12

Prerequisites: None

AP Macroeconomics emphasizes economic principles as applied to the economy as a whole. The topics are presented to meet the curriculum standards tested on the AP Exam as designed by the College Board. Lessons include basic economic concepts common to Microeconomics and Macroeconomics; an analysis of national income and its components, economic indicators including gross domestic product (GDP), the inflation rate and the unemployment rate; the financial and banking, monetary and fiscal policies, exchange rates and international finance, globalization and world trade.

AP Art History **Credit: 1/2** **HW Load: New Course for 17-18**

Grade Placement: 10-12

Prerequisites: None

The AP Art History course explores such topics as the nature of art, its issues, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from pre-history to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history. In class we will deconstruct and rebuild our perceptions of each of the 250 artworks College Board has selected as "required" works as well as making our own art using the techniques, styles and themes displayed in master works.

AP Comparative Government **Credit: 1/2** **HW Load:** 

Grade Placement: 11-12

Prerequisite: AP US History (or concurrent enrollment)

AP Comparative Government and Politics is an elective course that provides a college-level introduction to the fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of county settings. The course content is presented in depth and at an accelerated pace. The course aims to illustrate the rich diversity of political life and to show available institutional alternatives in addition to stressing the importance of global political and economic changes. Students will compare and contrast major political concepts, themes, and generalizations related to six core countries studies in college-level introductory comparative political courses: China, Great Britain, Iran, Mexico, Nigeria, and Russia. Students will read college-level texts, analyze documents, and conduct formal research and writing projects. AP students prepare to take the Advanced Placement examination in May for possible college credit.

AP European History **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: World History

AP European History will build on the foundation set in World History, using that course as a springboard to study the people and events of European History in more depth. The year-long curriculum weaves primary sources, including literature contemporary to the period of study, and historical studies and interpretations by leading scholars. Students will have the opportunity to foreground and compare these texts as they approach them from different historical perspectives. In addition, students' communication skills, both written and verbal, will be developed through a variety of activities including response writing, debate and discussion, and hands-on projects that tie historical study to the historical imagination of each student.

AP Human Geography **Credit: 1** **HW Load:** 
Grade Placement 11-12

Prerequisites: World Geography, World History

AP Human Geography is a college-level introductory course on the study of how people make places, i.e. how we organize space and society, how we interact with each other in places and across space, and how we make sense of others and ourselves in our localities, regions, and the world. Units of study and AP course requirements include geography: its nature and perspectives, population and migration, cultural patterns and processes, political organization of space, agriculture, development and industrialization, and cities and urban land use. Students will read a recently published AP approved college-level textbook, engage in daily classroom activities, analyze and discuss a variety of articles and documents in class, carry out the "Farm to Fork" research and writing project during the Agriculture unit, and prepare for the AP exam in May.

AP Microeconomics	**Credit: 1/2**	**HW Load:** 
Grade Placement: 12		
Prerequisites: None		
AP Microeconomics is a course designed to provide students with a thorough understanding of the principles of economics as they apply to individual decision making units, including individual household and firms. Students taking the course will spend time examining the theory of consumer behavior, the theory of the firm, and the behavior of profit-maximizing firms under various market structures. They will evaluate the efficiency of the outcomes with respect to price, output, consumer, surplus, and producer surplus. Student will have an opportunity to examine the behaviors of households and businesses in factor markets, and learn how the determination of factor prices, wages, interest, and rent influence the distribution of income in a market economy. Students will also consider instances in which private markets may fail to allocate resources efficiently and examine various public policy alternatives aimed to improving the efficiency of private markets.		

AP Psychology	**Credit : 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: None		
The year-long AP Psychology course is meant to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Some of the topics discussed in class include: How we learn—and How We Could Do It Better; (why there are) Different Perceptions of Our World; Biology of the Brain; Our Existence in Altered States of Consciousness; Drug and non-drug treatments of Psychological Disorders; and Why Your Personality is Different from Everyone Else's. Students must enter in both course numbers (Pysch 1 & Phych II) on choice sheet.		

Amateur Radio	**Credit: 1/2**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: None		
This semester-long course is built around a framework that includes the use of Amateur Radio as a means to education students for life and work in a global, technological society. By the end of the course, each student will obtain their Federal License to operate on Amateur Radio frequencies to talk to people all over the world. In practicing good radio communication, one is forced to apply basic electronics, build necessary devices (antennas, tuners, receivers, etc.), learn geography, and practice foreign languages. Concepts will be covered and then put into practice by using them to operate from the LBJ High School Amateur Radio Club's 'Radio Room." K5LBJ students will also learn both Voice and Morse Code, and communicate in digital codes such as PSK31 (similar to instant-messaging) and Slow-Scan TV (transferring images). Exploration of satellite operation is also anticipated.		

Constitutional Law	**Credit: 1/2**	**HW Load: New Course for 17-18**
Grade Placement: 11-12		
Prerequisite: None		
This semester-long class will discuss landmark U.S. Supreme Court decisions to learn about the concept of liberty (from freedom of religion to abortion), equality (affirmative action to gay rights), search and seizure, gun rights, cruel and unusual punishments, etc. This course in informative and allows for discussion of controversial topics. This course also provides students the opportunity to learn about the operation and inner workings of arguably America's most powerful branch of government—the Supreme Court. Analysis will include not only the struggle between state and federal power, but also the degree to which the government can restrict individual freedom.		

Contemporary Issues	**Credit: 1/2**	**HW Load: No Data Available**
Grade Placement: 11-12		
Prerequisite: None		
This semester-long course will examine the history of the United States form 1945 to the present with a focus on how historical events have created the current political, cultural, and social climate in which we live. There will be a strong emphasis on exploring current events, specifically through understanding their historical causes and predicting their effects. Using a variety of sources including primary and secondary sources, we will examine the changing faces of American society, and foreign and domestic policy.		

Facing History	**Credit: 1/2**	**HW Load: No Data Available**
Grade Placement: 11-12		
Prerequisite: None		
"All that is necessary for the forces of evil to win in the world is for enough good men to do nothing." – Edmund Burke		
This semester-long course is not only about racism or anti-Semitism; it is not only about the Holocaust. However, we will address those issues to learn more about ourselves as individuals and as members of society—only then can we begin to make decisions about race, tolerance, conformity, and obedience. This class will not end prejudice, discrimination, or hatred, but perhaps it will heighten our awareness of the cause of and consequences of those issues. This course covers areas of American and World History involving human rights issues and abuses including but not limited to slavery in America, the Armenian genocide, sex slavery today, the War on Terror, and the Holocaust.		

Mock Trial	**Credit: 1/2**	**HW Load: New Course for 17-18**
Grade Placement: 9-12		
Prerequisite: None		
The state of Texas has recognized that successful participation in business, professional and social settings requires effective communication skills. As such, it requires students to take a 'Communications Applications' course that includes oral presentations and instruction on the communication process, interpersonal communication, and group communication. Within its advanced academic program, the Liberal Arts & Science Academy (LASA) seeks to satisfy such core graduation requirements while also providing an enhanced educational environment. To that end, LASA has developed a Mock Trial class where students can both learn and apply their communication skills.		
Students enrolled in the Mock Trial class will identify, analyze, develop, and evaluate communication skills needed for professional and social success within a litigation framework. They will build skills necessary for interpersonal situations (working with clients & opposing counsel), group interactions (jury selection), and personal and professional presentations (legal seminars & jury trials). Furthermore, students will be transformed into advocates as they participate in mock trials. In this context, they will use their problem solving processes and critical-thinking skills to develop a coherent trial strategy. Within the trial courtroom, advocates will deliver clear verbal messages, be attuned to effective nonverbal behaviors, and most importantly, listen for desired results.		

Model United Nations I	**Credit: 1/2**	**HW Load: New Course for 17-18**
Grade Placement: 10-12		
Prerequisite: World Geography		
This year-long course will have a multifaceted approach that allows students to develop knowledge and skills for participating in Model United Nations simulations that require extensive knowledge of contemporary global issues. While developing an understanding of the political, economic, and social situations of an array of different countries/regions of the world is an important part of the course, students will actively role-play persons of ambassadorial stature and use rhetorical skills to expound their researched perspective of a topic to both small and large audiences. Students will research the history and current status of the United Nations, the historical and contemporary backgrounds of countries, the topics chosen for either formal multi-school conferences or informal in-class simulations, and the rules of parliamentary procedure. They will also develop speech-writing skills and practice public speaking both formally and informally. Students will draft position papers on given topics, practice writing draft resolutions, caucus and use skills of diplomacy at both conferences and in an informal classroom setting. Students will engage primarily in simulations, while daily developing a theoretical framework for understanding international relations.		

Model United Nations II **Credit: 1/2** **HW Load: New Course for 17-18**
Grade Placement: 11-12

Prerequisite: MUN I

The Model United Nations II class will allow for both continued growth and the development of leadership skills in becoming global-minded citizens. MUN II students help facilitate the running of in-class simulations for MUN I level students. The tasks include choosing topics for the simulations, writing background papers, and chairing the actual simulations. By the end of the course students will be more equipped with the skills necessary to tackle the world's problems concerning peace and security, energy and our environment, global health and poverty, and development and human rights. During class time, students will prepare for conferences, and read a contemporary book discussing globalization and the international system. As a member of the class, leadership skills for in-class simulations, participation as a delegate in some in-class simulations, conference preparation, text reading, and in-class and online discussion, will determine your grade.

Native American History **Credit: 1/2** **HW Load: New Course for 17-18**

Grade Placement: 11-12

Prerequisite: APush or concurrent enrollment

This semester-long course will examine the history of the indigenous tribes of the United States and Canada. The focus of this class will be to look at tribes that are often not discussed in other history courses at LASA. We will look at both historical issues surrounding these tribes as well as issues that these tribes address in the 21st century. Other areas of discussion and research in this class will include religious traditions, oral stories, art, dance, and more for the tribes being studied. There will be a research component as students will focus throughout the semester on one specific tribe as we address all the areas above.

Street Law **Credit: 1/2** **HW Load: New Course for 17-18**

Grade Placement: 10-12

Prerequisite: none

"Street Law" is a course that will focus on the "big picture" of legal practice. Class will cover many topics including: Criminal law, Civil litigation, Torts, Contract Law, Landlord/Tenant, Family Law, Search/Seizure, and Civil Liberties (Free Speech, etc.). The content will be conveyed in a practical format to allow students to gain the knowledge necessary to understand our law-saturated society. As such, we will use case studies, individual research, group discussion / debate, guest speakers, and mock trials throughout the course in order to reach our goal. This is a great beginner survey course for those interested in law.

Signature Courses

Course Code	Course Name	Credits	Length	Grade	Prerequisites
8280.HTOC.X	Electronic Magazine	1	Fall or Spring	9	None
4023.H000.X	Science and Technology	1	Fall or Spring	9	None
1441.H000.X	Great Ideas	1	Fall or Spring	10	None
4206.H000.X	Planet Earth	1	Fall or Spring	10	None

Electronic Magazine - Graphic Design Signature Course **Credit: 1** **HW Load:** 

Grade Placement: 9

Prerequisite: None

A block class designed as the humanities answer to science and technology, students work in groups to solve the problem of creating a print magazine, fit for online consumption. Students work to implement personal research in a socially relevant topic, explore this topic through a variety of writing genres, match the topic with graphic design and publish their magazine on the internet. Professional graphic designers serve as mentors throughout the semester for the project; they also offer support to the process in general. Students walk out of the course with a deep awareness of the visual world and develop strategies for communicating messages to specific audiences.

Science and Technology (SciTech) **Credit: 1** **HW Load:** 

Grade Placement: 9th

Prerequisites: none

Science and Technology (a.k.a. SciTech) recently recognized, as a "National Best Practice" by the American Society of Mechanical Engineers (ASME) is a course for ninth grade or tenth grade transfers with no pre-requisites. SciTech is an accelerated block course science course taught for 2 periods of the school day. The course is completed in one semester of the school year, yet yields one full year of academic credit and delivers one of the credits for the "advanced academic measures" requirement for AISD Distinguished Academic Program graduation Plan The course is a student-centered problem solving curricula, which develops skills in mechanical engineering, physics, engineering graphics, teaming, math modeling, manufacturing (using power and hand tools) and computer processing. The evaluation of the course is based on the successful completion of the course goals, creation of a mechanical device, developed design documentation, and maintenance of a personal logbook about design experience. The SciTech course activity evolves from a four-step design sequence used throughout science, engineering and technology.

Great Ideas Signature Course **Credit: 1** **HW Load:** 

Grade Placement: 10

Prerequisites: none

Building on the skills learned in freshman and sophomore-year English and social studies classes, Great Ideas considers the questions humans have asked since the beginning of time, as well as, the answers they have posited to these questions. Throughout this course, students are asked to think about the existential questions that have challenged humanity and to join the conversations that have perplexed and inspired thinkers throughout history. Some topics of discussion include: what it means to live in society, what is good and what is evil, what it means to know something and to share that information with others, as well as, what it means to be beautiful and to create beauty (and a whole host of other questions). Our goal is to introduce students to a variety of thinkers, movements, and critiques that have shaped human thought, particularly Western thought, and to guide them through the research process to discover their own answers. Students are expected to read, think and write critically about what they observe and research. Finally, students will be required to produce their own representation of a particular question of interest and to pose their findings to this question.

Planet Earth **Credit: 1** **HW Load:** 

Grade Placement: 10

Prerequisite: Biology

Planet Earth is a registered innovative course through the Texas Education Agency and not offered anywhere else in the district. The course content focuses on the complex, dynamic relationship between the planet and its life, tracing it through the Earth's geologic history. Parts of this course cover the emerging, integrative science currently being referred to as Geobiology at the college level. The course is project-based with major components being a semester-long biodiversity study, a simulated senate hearing to evaluate extra-terrestrial impact defense, and geologic mapping exercises, through which students experience hands-on geologic and biologic field work. This interdisciplinary course relies on reading and discussion of primary source material rather than a textbook, and writing and public speaking skills are enhanced through essay-writing and student presentations. The semester-long biodiversity study is a chance to complete authentic scientific research - here is your chance to do *real* science!

Languages other than English (LOTE) Course Offerings

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
ASL	2010.R000.Y	American Sign Language I	1	Year	9 -12	none
	2020.R000.Y	American Sign Language II	1	Year	9 – 12	ASL I
CHINESE	2461.R000.Y	Chinese I	1	Year	9 -12	none
	2462.R000.Y	Chinese II	1	Year	9 -12	Chinese I
	2463.H000.Y	Pre-AP Chinese III	1	Year	9 -12	Chinese II
	2464.P000.Y	AP Chinese IV	1	Year	9 -12	Pre-AP Chinese III
	2465.H000.Y	Chinese V	1	Year	9-12	AP Chinese IV
FRENCH	2013.R000.Y	French I	1	Year	9 -12	none
	2023.R000.Y	French II	1	Year	9 -12	French I
	2033.H000.Y	Pre-AP French III	1	Year	9 -12	French II
	2043.P000.Y	AP French IV	1	Year	9 -12	Pre-AP French III
	2053.H000.Y	French Literature V	1	Year	9 -12	AP French IV
	2063.H000.Y	French VI	1	Year	9 -12	French Literature V
GERMAN	2113.R000.Y	German I	1	Year	9 -12	none
	2123.R000.Y	German II	1	Year	9 -12	German I
	2133.H000.Y	Pre-AP German III	1	Year	9 -12	German II
	2143.P000.Y	AP German IV	1	Year	9 -12	Pre-AP German III
	2153.H000.Y	German V	1	Year	9 -12	AP German IV
JAPANESE	2471.R000.Y	Japanese I	1	Year	9 -12	none
	2472.R000.Y	Japanese II	1	Year	9 -12	Japanese I
	2473.H000.Y	Pre-AP Japanese III	1	Year	9 -12	Japanese II
	2474.P000.Y	AP Japanese IV	1	Year	9 -12	Pre-AP Japanese III
	2475.H000.Y	Japanese V	1	Year	9 -12	AP Japanese IV
LATIN	2213.R000.Y	Latin I	1	Year	9 -12	none
	2223.R000.Y	Latin II	1	Year	9 -12	Latin I
	2233.H000.Y	Pre-AP Latin III	1	Year	9 -12	Latin II
	2243.P000.Y	AP Latin IV Vergil	1	Year	9 -12	Pre-AP Latin III
	2253.H000.Y	Latin V	1	Year	9 -12	AP Latin IV Vergil
SPANISH	2313.R000.Y	Spanish I	1	Year	9 -12	none
	2323.R000.Y	Spanish II	1	Year	9 -12	Spanish I
	2333.H000.Y	Pre-AP Spanish III	1	Year	9 -12	Spanish II
	2343.H000.Y	Spanish IV	1	Year	9-12	Spanish III
	2343.P000.Y	*AP Spanish IV	1	Year	9 -12	Spanish III
	2353.H000.Y	Spanish V	1	Year	9 -12	AP Spanish IV
	2363.H000.Y	Spanish VI	1	Year	9 -12	AP Spanish Lit V

AMERICAN SIGN LANGUAGE

American Sign Language	**Credit: 1**	**HW Load: No Data Available**
Grade Placement: 9-12		
Prerequisite: None		
The goal of American Sign Language (ASL) is to develop communicative competence in ASL for hearing students who have frequent contact with the deaf community and who wish to interact with them. ASL has been recognized by the state as fulfilling the foreign language requirement for high school graduation plans. At the end of ASL I, students should be performing at the novice-mid proficiency level in their interpersonal skills and at the novice-high proficiency levels in their interpretive and presentational skills.		

American Sign Language II	**Credit: 1**	**HW Load: No Data Available**
Grade Placement: 9-12		
Prerequisite: ASL I		
Level II of ASL continues sequential world language instruction of which the overarching goal is communication. Student will engage in conversations, present information to an audience, and interpret authentic materials in the target language. Students will also use the language to connect with content areas, to make comparisons with their own language, and to participate in communities beyond the classroom. Students should perform at novice-high to intermediate-loww proficiency by the end of the year.		

CHINESE

Chinese I	**Credit: 1**	**HW Load:** 
Grade Placement: 9-10		
Prerequisite: None		
Chinese Level 1 introduces students to the four basic skills of language learning (listening, speaking, reading and writing) in Simplified Mandarin Chinese, with a strong focus on conversational listening and speaking. Using more than 80 percent Mandarin during class, students learn character derivations and components and learn about Chinese geography, history, culture, customs, and traditions. Through interactive activities, students use listening, speaking, reading and writing skills to reinforce their culture knowledge.		

Chinese II	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Chinese I		
Chinese Level II continues skill development in Simplified Mandarin Chinese in the four basic skill areas (listening, speaking, reading and writing). Classes use more than 90 percent Mandarin, and students start to read stories in Chinese. Level II reviews and refines grammar concepts and increases students' cultural knowledge. Students interactively use listening, speaking, reading, and writing skills to reinforce their knowledge and appreciation of Chinese culture.		

Chinese Pre-AP III	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Chinese II		
Chinese Pre-AP Level III builds on the foundational skills developed in earlier levels of Simplified Mandarin Chinese. Level III Is an Advanced Placement (AP) preparatory course intended to develop the skills students will later use when taking the Chinese AP examination, and Mandarin Chinese is used almost exclusively by teacher and students. Students will complete tasks and assignments to improve their skills in listening comprehension, reading, writing, and speaking. Academic study is enhanced by incorporating Chinese culture through magazines, books, video tapes, movies, and other authentic sources. A strong emphasis will be placed on communicative competence.		

AP Chinese IV **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: Chinese Pre-AP III

Advanced Placement (AP) Chinese Level IV builds on the skills developed in earlier levels of Simplified Mandarin Chinese. In this total immersion program, Level IV prepares students to successfully take and pass the Chinese AP examination. Students will complete tasks and assignments to improve their skills in listening comprehension, reading, writing, and speaking, and deepen their knowledge of Chinese culture through magazines, books, video tapes, movies, live interactions, and other authentic sources. A strong emphasis will be placed on communicative competence.

Students will engage with an extensive amount of authentic Mandarin language sources related to the following themes:

- Personal and Public Identities
- Families and Communities
- Academic and extracurricular activities
- Sports, Career, and Hobbies
- Travel, Transportation, and Housing
- Online experiences and Entertainment
- Environment and Endangered species

Course content will also reflect the intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.) Mandarin Chinese is used exclusively by the teacher and students, and authentic sources are both provided by the teacher and researched and presented by the students. Students will complete listening, reading, writing, and speaking assignments based on authentic sources and communicative goals. Assignments and tasks will be aimed at developing the skills necessary to be able to:

- Understand written and spoken Mandarin in diverse contexts
- Maintain a conversation about elements of contemporary life
- Appropriately respond to email and similar written communication
- Write formal essays and create projects that integrate knowledge from authentic sources
- Analyze and compare Chinese and American cultural practices and beliefs

Chinese V **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: AP Chinese IV

This course is a blend between independent study and selected topics, and students must be motivated and dedicated to the study of Mandarin Chinese to enroll in this total immersion advanced course. Content reflects the intellectual interests shared by the students and teacher. Students will study a variety of subjects and be asked to interact with an extensive number of authentic Mandarin Chinese language sources. Students will complete multiple independent research projects that they will present to the class. Such projects will be developed by the teacher and/or the students based on interest, and could relate to any number of topics, including current events, literature, cuisine, life styles, and contemporary cultural practices. To extend communicative expertise, students will identify vocabulary and grammar that they need to learn or review with teacher facilitation. The main goal of the course is to deepen students' proficiency in the Mandarin Chinese language and their understanding of Chinese culture.

FRENCH

French I	**Credit: 1**	**HW Load:** 
Grade Placement: 9–12		
Prerequisite: None		
French I is an introduction to the French language.. There will be an emphasis on learning pronunciation, spelling, basic grammar, and building a workable vocabulary. Students will learn basic phrases that they must use in the classroom, and begin making simple responses as the year progresses. There will be frequent listening, reading, writing, and speaking activities. A . Academic study is enhanced by a correlation of French culture through the use of magazines, books, video tapes, movies, and other authentic sources. A strong emphasis will be placed on communicative competence.		

French II	**Credit: 1**	**HW Load:** 
Grade Placement: 9–12		
Prerequisite: French I		
The beginning of the year is devoted to a review of the major grammatical concepts and vocabulary covered in French 1, although at a faster pace and with the added element of exploring nuances in meaning and usage. Students will complete tasks and assignments to improve their skills in listening comprehension, reading, writing, and speaking. Academic study is enhanced by a correlation of French culture through the use of magazines, books, video tapes, movies, and other authentic sources. Students will begin exploring Francophone culture through some independent research using French language sources. A strong emphasis will be placed on communicative competence.		

French III – Pre AP	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: French II		
This course explores the major concepts learned in French I and II in more depth with an emphasis on culture, in addition to introducing several new topics and more specialized vocabulary. Students will receive longer and more frequent reading assignments that will help them learn about the culture of various Francophone countries around the world. Students will participate in real-life communicative tasks and the class is conducted almost exclusively in French. Academic study is enhanced by a correlation of French culture through the use of magazines, books, video tapes, movies, and other authentic sources. A strong emphasis will be placed on communicative competence.		

French IV – AP Language and Culture **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: French III Pre-AP

Students will engage with an extensive amount of authentic French language sources related to the following themes:

- Personal and Public Identities
- Families and Communities
- Global Challenges
- Beauty and Aesthetics
- Science and Technology
- Contemporary Life

The course content can reflect the intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.) French is used exclusively by the teacher and students, and authentic sources are both provided by the teacher and researched and presented by the students. Students will complete listening, reading, writing, and speaking assignments based on authentic sources and communicative goals.

Assignments and tasks will be aimed at developing the skills necessary to be able to:

- Understand written and spoken French in diverse contexts
- Maintain a conversation about elements of contemporary life
- Respond to a formal email appropriately
- Write a formal essay that integrates knowledge from authentic sources
- Analyze and compare Francophone and American cultural practices and beliefs

French V/VI – Topics in French Language and Francophone Culture

Grade Placement: 11-12 **Credit: 1** **HW Load: No Data Available**

Prerequisite: French IV AP

This course is a cross between an independent study and a topics course, and students must be motivated and dedicated to the study of French in order to enroll. The course content reflects the intellectual interests shared by the students and teacher. Students will study a variety of subjects and be asked to engage with an extensive amount of authentic French language sources. Students will complete multiple independent research projects that they will present to the class. Such projects will be developed by the teacher and/or the students based on interest, and could relates to any number of topics, including current events, literature, cuisine, films, and contemporary cultural practices. In order to complete communicative tasks, students will identify vocabulary and grammar that they need to learn or review, which will then be facilitated by the teacher. The main goal of the course is to deepen students' proficiency in the French language and their understanding of Francophone cultures.

GERMAN

German I **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: none

The student with little or no previous training in German will gain an understanding of the language and the culture of the German–speaking world. The curriculum includes the study of the culture and basic communicative skills in listening, speaking, reading, and writing.

German II	**Credit: 1**	**HW Load:** 
Grade Placement: 9		
Prerequisite: German I		
German II is a further study of the skills acquired in level one German. The curriculum includes the study of the culture and basic communicative skills in listening, speaking, reading, and writing.		

German III - Pre-AP	**Credit: 1**	**HW Load:** 
Grade Placement: 9		
Prerequisite: German II		
German III is intended for students who are motivated to move beyond the standard levels of language study. The curriculum includes extensive use of the language as well as further development of reading and writing skills and the study of literature. This course is recommended for college-bound students who plan to take university placement tests in a world language or who plan to take Advanced Placement German.		

Advanced Placement German IV	**Credit: 1**	**HW Load:** 
Grade Placement: 9		
Prerequisite: German III		
AP German is intended for students who are motivated to continue intensive study of the language in preparation for the Advanced Placement examination. The curriculum includes the study of literature and further development of oral/aural skills in the language and will help to prepare students for the Advanced Placement examination in the language. Students who have successfully completed level III of the language are eligible to take this course.		

German V	**Credit: 1**	**HW Load: No Data Available**
Grade Placement: 9		
Prerequisite: German III/IV		
German V is intended for students who are motivated to continue the study of language. The curriculum includes intense study of literature and further development of oral/aural skills in the language and will help to prepare the student for university-level placement tests in the language. Students who take this course must be able to work independently, as this course may be completed as an independent study.		

JAPANESE

Japanese I	**Credit: 1**	**HW Load:** 
Grade Placement: 9-10		
Prerequisite: None		
This is an introductory course designed to give students an understanding of, and ability to use, basic grammar and vocabulary. The course aims to develop all four skills (reading, writing, speaking, and listening). At the end of the year, students should be able to read and write both Japanese scripts and 20 to 30 kanji, and perform basic functions using the present, future and simple past tense.		
Japanese II	**Credit: 1**	**HW Load:** 
Grade Placement: 10-12		
Prerequisite: Japanese I		
The aim of this course is to expand on the basic level skills. It builds on grammar and vocabulary, as well as more advanced reading and writing skills. Students will be able to read 80 to 100 kanji by the end of the year.		

Japanese III - Pre-AP	**Credit: 1**	**HW Load:** 
Grade Placement: 10-12		
Prerequisite: Japanese II		
Third-year Japanese aims to bring students' linguistic ability to a low-intermediate level. In addition to increasing vocabulary and the knowledge of grammar, students' fluency will be enhanced. Students will be able to read 180 kanji by the end of the year.		

Japanese IV Advanced Placement	**Credit: 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: Japanese III Pre AP		
The objective of this course is to bring students up to the intermediate level in Japanese. By the end of the course, they will know enough vocabulary and all the major grammar that one would need to function in Japan at a basic level. Students will be able to read 300 kanji by the end of the year.		

Japanese V	**Credit: 1**	**HW Load:** 
Grade Placement: 11-12		
Prerequisite: AP Japanese IV		
The aim of this course is to enhance fluency. Students will achieve this by working on projects in Japanese.		

LATIN

Latin I	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: none		
Latin I is an introductory course involving the bases of Latin grammar, Classical Greek mythologies and Roman history. Attention is given to the nuance of the language's grammar and vocabulary building. Additionally, the coursework assists with basic English grammar and syntax skills. The class helps students acquire the foundation for progression to Latin II and beyond.		

Latin II	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Latin I		
The second year of Latin explores more of the language's complex grammar, syntax and idiomatic expressions. Students will begin the year reading from the Cambridge series that they began with Latin I and progress to Julius Caesar's, 'De Bello Gallico'. Additionally, students will delve deeper into Roman history, focusing mainly on the Roman Republic period. A more involved inspection of major and minor Greek mythologies will also be explored with emphasis on the literary and historical aspects.		
The students will be performing at a college reading level before the end of the academic school year.		

Latin III - Pre-AP	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Latin II		
The Latin III program is designed to introduce to the student as many different Roman authors and readings as possible during the academic year. The course begins with writings from Pliny the Younger, circa 1st century AD, and progresses to medieval, liturgical hymns, poems and prose. The last six weeks is devoted entirely to the Satyricon of Petronius, a 1st century "novel" that came to be the basis for a few great pieces of Western literature, Huckleberry Finn and the Great Gatsby to name a couple. The course is primarily a reading course with most grammar components covered during Latin II. However, some of the more complex and obscure nuance of the language is evidenced throughout the course, in particular vulgar speech and idioms. The goal of the course is to give students as much exposure to a variety of Latin authors in the timeframe allowed. Further, the students will be gathering necessary skills to achieve on the Advanced Placement exams the following year.		

Latin IV Advanced Placement	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Latin III or equivalent		
Latin AP is designed to achieve college foreign language credit for those students expecting to pursue a college degree. As such, the AP course is structured in almost the exact format as the students will experience later at their universities. The commitment to study, participate in class discussions, complete homework and paper assignments and research necessary topics is crucial to student's success. The syllabi are mandated by College Board but, the curricula are rotated so that students may take, and receive credit for both Latin IV and Latin V. Vergil's Aeneid is offered on a rotation with the Latin Literature exam which is comprised of the poems of Catullus coupled with Cicero's 'Pro Archia' (entire) and selections from his 'De Amicitia'. There will be daily homework assignments, weekly translation or vocabulary quizzes and the end of every six-week grading period will see an exam which mirrors some aspect of an actual AP exam. Overall, the course is structured to give the students a comprehensive understanding of the literature. Translation, reading comprehension, grammatical outlines are the bases of the course along with an understanding of the history, culture and politics of the works assigned.		

Latin V	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Latin IV or equivalent		
The level five Latin course is designed for those students wishing to continue their study of the language and culture of ancient Rome. Students research, write and present projects, on a topic of their choosing, to a lower-level Latin class. There is one project per semester.		
In addition, students enrolled in this course, create lessons and assignments for the level IV AP students. Since the level V students have only recently taken the Latin AP exam, it is expected that the level V students will have the requisite knowledge of the exam to assist the level IV students in their school year.		

SPANISH

Spanish I **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: None

In this course students will begin to develop skills in the four areas of listening, speaking, reading, and writing in Spanish. Students will also learn about Spanish culture around the world.

Upon completion of this course, students should be able to:

- Talk about things in the present tense.
- Have an understanding about the preterite tense, and how to use it.
- Engage in basic conversation such as, but not limited to introductions, describing people, places, and things, ordering food, talking about pastimes/activities.
- Write short passages about the above information.
- Have a trained ear, and understand basic spoken Spanish with some inaccuracy.
- Gain an understanding of the similarities and differences in cultural practice and socio-political perspectives of some Latino communities.

Spanish II **Credit: 1** **HW Load:** 

Grade Placement: 9-11

Prerequisite: Spanish I

In this course, given mostly in Spanish, students will continue to develop skills in the four areas of listening, speaking, reading, and writing in Spanish. Students will also learn about Spanish culture around the world.

Upon completion of this course, students should be able to:

- Handle successfully a limited number of interactive, task-oriented and social situations.
- Ask and answer questions, initiate and respond to simple statements and maintain face-to-face conversation although in a highly restricted manner and with some linguistic inaccuracy.
- Circumlocute in order to compensate for limited vocabulary.
- Narrate in the present and past tense with limited hesitation.
- Read consistently with increased understanding of simple connected texts dealing with a variety of basic and social needs.
- Write short passages, letters.
- Identify similarities and differences in cultural practice and socio-political perspectives of some Latino communities.

Spanish III Pre-AP **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Spanish II

In this course, students will continue to develop skills in the four areas of listening, speaking, reading and writing in concert with the examination of Latino culture. Communication—face-to-face, in writing or through reading, is at the heart of second language study. Upon completion of this course, students should be able to:

- Use future and conditional tenses and the subjunctive mood.
- Perfect writing skills.
- Sustain conversations, read, understand and write on daily life topics, communicate feelings, express opinions and make suggestions.
- Discuss several writers of Latino literature and their works.
- Write and present a summative piece about a major cultural topic.

Spanish IV **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: Spanish III

This level is for student who would like to continue to develop skills in the four areas of listening, speaking, reading and writing in concert with the examination of Latino culture. Communication—face-to-face, in writing or through reading, is at the heart of second language study. This course is not an Advanced Placement course and will not follow a College Board curriculum.

AP Spanish IV **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: Spanish III

An AP Spanish Language course is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition.

The course objectives are to help you:

- understand Spanish spoken by native speakers at a natural pace, with a variety of regional pronunciations, in both informal (interpersonal) and formal (presentational) contexts;
- develop an active vocabulary sufficient for reading newspaper and magazine articles, contemporary literature, and other non-technical writings (websites, letters and emails, advertisements, signs and instructions) in Spanish without dependence on a dictionary;
- express yourself by describing, narrating, inquiring, and developing arguments in Spanish, both orally and in writing, with reasonable fluency, using different strategies for different audiences and communicative contexts.

In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Therefore, you should receive extensive training in combining listening, reading, and speaking (or listening, reading, and writing) skills in order to demonstrate understanding of authentic Spanish-language source materials.

Spanish V/VI **Credit: 1** **HW Load:** 

Grade Placement: 11-12

Prerequisite: Spanish III/IV

In this course, students will continue to develop skills in the four areas of listening, speaking, reading and writing in concert with the examination of Latino Literature. Literary analysis is at the heart of this study. Upon completion of this course, students should be able to:

- Sustain conversations, read, understand and write on daily life topics, communicate feelings, express opinions and make suggestions.
- Discuss several writers of Latino literature and their works.
- Write and present a summative piece about a major literary topic.

Media and Technology (CTE) Course Offerings - courses with an * must have a teacher's signature on choice sheet

Course Code	Course Name	Credits	Length	Grade	Prerequisites
8262.HT0C.Y	Audio Video Production (AVP)	1	Year	9 -12	None
8270.HT1C.Y	AVP – Advanced	2	Year	10 -12	AVP
8274.RC0C.Y	AVP – Practicum	2	Year	11 - 12	Advanced AVP
8758.H000.Y	*AVP - Ind Study in Tech Apps	1	Year	11-12	AVP
8276.RC0C.Y	Commercial Photography	1	Year	10 – 12	None
8542.HT0C.Y	Computer Science – Intro	1	Year	9 -12	None
3803.P000.Y	Computer Science AP	1	Year	9 -12	None
8544.HT1C.Y	Computer Science – Advanced	1	Year	10 -12	AP Comp Sci
8758.H100.Y	*Computer Science - Ind Study in Tech Apps	1	Year	9 -12	Adv Comp Science or Digital Electronics
8764.HT2C.Y	Digital Electronics	1	Year	10 - 12	Teacher Approval or Intro or AP CS
8297.RC0C.Y	Fashion Design	1	Year	9 – 12	None
8281.HT1C.Y	Graphic Design – Advanced	1	Year	10 - 12	Electronic Magazine
8300.HC1C.Y	Graphic Design 3 - Problems & Solutions I	1	Year	10 -12	Adv Graphic Design
8302.HC1C.Y	Graphic Design 4 - Problems & Solutions I				
8300.HC0C.Y	Newspaper I	1	Year	9 – 12	Ezine or concurrent
8302.HC0C.Y	Newspaper II	1	Year	10 – 12	Newspaper I
8281.HT3C.Y	Newspaper III	1	Year	11 – 12	Newspaper II
1848.H100.Y	Newspaper Editor	1	Year	12	Newspaper III
8718.HC2C.Y	Robotics I	1	Year	10 -12	Sci Tech
8722.HC2C.Y	Robotics II	1	Year	11-12	Robotics I
8723.HC2C.Y	Robotics III	1	Year	12	Robotics II
8300.HC1C.Y	Yearbook I	1	Year	9-12	Ezine or concurrent
8302.HC1C.Y	Yearbook II	1	Year	10 - 12	Yearbook I
8281.HT2C.Y	Yearbook III	1	Year	11 - 12	Yearbook II
1848.H000.Y	Yearbook Editor	1	Year	12	Yearbook III
8550.HT0C.Y	Web Technologies	1	Year	10 - 12	Intro Comp Sci or AP Computer Science

Audio Video Production (AVP) **Credit: 1** **HW Load:** 

Grade Placement: 9-12

Prerequisite: none

This is an introduction to digital filmmaking. Students learn film theory, camera, audio, non-linear editing software, and other film

production standards in order to work through the stages of production and make film projects. Each student designs a DVD of his/her projects to take away when finishing the course.

*Articulated credit may be awarded upon successful completion.

AVP - Advanced **Credit: 2** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Audio Video Production

Students build on the skills learned in the introductory class to create various film projects within a longer time frame and using professional equipment. Short films are submitted to SXSW and other film festivals. On-location shoots off-campus, field trips, and guest speakers enhance the quality of the film projects at this level.

*Professional certification in Adobe Premiere Pro is offered

*Articulated credit may be awarded upon successful completion.

AVP – Practicum **Credit: 2** **HW Load: No Data Available**

Grade Placement: 11-12

Prerequisite: Advanced Audio Video Production

Students pitch film project ideas and work independently throughout this course to produce the project(s). A professional reel (portfolio) is created and other preparations are made for a career in the film and TV industry.

*Articulated credit may be awarded upon successful completion.

AVP - Ind Study in Tech Apps **Credit: 1** **HW Load: No Data Available**

Grade Placement: 9-12

Prerequisite: AVP

*Select students may choose to enroll as an AVP Lab Assistant and assist an intro Audio Video Production class as they learn the equipment and troubleshoot software. Lab Assistants are in charge of keeping the lab in order, maintaining equipment, and updating the computers. They may also be called upon to do special video projects requested by teachers on occasion.

Commercial Photography **Credit: 1** **HW Load: New Course for 17-18**

Grade Placement: 9-12

Prerequisite: None

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Computer Science - Intro **Credit: 1** **HW Load:** 

Grade Placement: 9–12

Prerequisite: None

Computer Science underlies most innovation today, from biotechnology to cinematography to national security. Computer science teaches students design, logical reasoning, and problem solving - all valuable beyond the classroom. No prior programming experience required or expected! The course begins with a study of online privacy and the personalization of the internet, before fundamental programming concepts are explored using graphical programming languages. An in-depth study of the general-purpose Python language includes writing encryption and text analysis programs. Students will work together in pair programming for a many of the projects.

Computer Science – AP **Credit: 1** **HW Load:** 
Grade Placement: 9-12
Prerequisite: None
Do you enjoy puzzles or solving logic problems? Want to find faster or more efficient ways to get things done? Computer Science underlies most innovation today, from biotechnology to cinematography to national security. The AP Computer Science course is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course.

Computer Science – Advanced **Credit: 1** **HW Load:** 
Grade Placement: 10-12
Prerequisite: AP Computer Science Required
Algorithms and data structures emphasizes the following topics: data structures, abstract data types, recursive algorithms, algorithm analysis, sorting and searching, and problem-solving strategies. This course introduces students to the concept of data structures through abstract data structures including lists, sorted lists, stacks, queues, deques, sets/maps, directed acyclic graphs, and graphs; and implementations including the use of linked lists, arrays, binary search trees, M-way search trees, hash tables, complete trees, and adjacency matrices and lists. This course introduces students to algorithms design including greedy, divide-and-conquer, random and backtracking algorithms and dynamic programming; and specific algorithms including, for example, resizing arrays, balancing search trees, shortest path, and spanning trees.

Computer Science - Ind Study in Tech Apps **Credit: 1** **HW Load: No Data Available**
Grade Placement: 9-12
Prerequisite: Teacher approval, Intro CS or Adv CS
*If you have exhausted the entire Computer Science Curriculum at LASA and you want to explore more about Computers then this course is the right fit for you. Students write a project proposal (can be coded in any language) and then work on their projects. They also have to present their work to their peers and teach each other more complex Computer Science concepts.

Digital Electronics **Credit: 1** **HW Load:** 
Grade Placement: 10–12
Prerequisite: Teacher Approval or Intro CS or AP CS
The transistor, arguably the single most important invention in the last 100 years, has ignited a series of changes that changed the way people do their jobs, pay their bills, communicate, as well as educate and entertain themselves. Starting with the fundamental concepts of electricity and circuit analysis techniques, students will learn how transistors operate and can be used to construct everything from simple logic gates to complex processors. Students will explore resistive, capacitive, basic arduino, and many logic circuits in hands on projects and simulations. Students will work in small groups and utilize a breadboard, a multimeter, an arduino, an oscilloscope, the SPICE circuit simulator, a logic simulator, a logic analyzer, and FPGA programming platform in their projects.

Fashion Design **Credit: 1** **HW Load: New Course for 17-18**
Grade Placement: 10-12
Prerequisites: Art I
Students will study fashion, textile, and apparel systems, and analyze the nature of fashion.

They will evaluate factors influencing the apparel industry, analyze the impact of consumer purchasing of fashion and apparel accessories, and propose ways to effectively manage the apparel dollar. Students will also design apparel products using principles and elements of effective design and properly care for each apparel item and clothing in general.

Graphic Design – Advanced	**Credit: 1/2 - 1**	**HW Load:** 
Grade Placement: 10-12		
Prerequisites: Electronic Magazine		
This course examines the graphic form within visual communication and persuasion. Students will gain a deeper understanding of fundamental design elements and typographic principles with an advanced application of those elements through studio assignments. Students will gain proficiency in Adobe Photoshop and Illustrator, with the opportunity to become Adobe Certified in both programs. Students will build an entry-level portfolio demonstrating applied visual problem solving.		

Graphic Design 3 - Problems & Solutions I	**Credit: 1**	**HW Load:**
Grade Placement 10-12		
Prerequisite: Graphic Design - Advanced		
Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Student designers will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Students will develop advanced professional communication strategies that incorporate teamwork and business skills. Students will create a portfolio of their work for employment as well as earn ACA certification in Adobe software.		

Graphic Design 4 – Problems & Solutions I	**Credit: 1**	**HW Load**
Grade Placement 11-12		
Prerequisite: Graphic Design 3 – Problems & Solutions I		

Newspaper I	**Credit: 1**	**HW Load:** 
Grade Placement: 9-12		
Prerequisite: Ezine or concurrent enrollment		
Students apply skills learned in Ezine Graphic Design 1 to the production of newspaper. They determine news coverage and editorial policy. Staffers plan, interview, draft and complete written and/or visual communications regularly. Newspaper production includes not only print, but digital and online media as well. Students will also acquire basic photojournalism principles. This course requires leadership and teamwork as well as additional hours after school.		

Newspaper II	**Credit: 1**	**HW Load:**
Grade Placement: 10 – 12		
Prerequisite: Newspaper I		
Students apply skills learned in Newspaper 1 to newspaper production. They help determine news coverage and editorial policy. Staffers plan, interview, draft and complete written and/or visual communications regularly. Newspaper production includes not only print, but digital and online media as well. Students will also acquire Indesign CC skills as well as basic photojournalism principles. This course requires leadership and teamwork as well as additional hours after school.		

Newspaper III	**Credit: 1**	**HW Load:**
Grade Placement: 11 – 12		
Prerequisite: Newspaper II		
Students apply skills learned in Newspaper II newspaper production. They determine news coverage and editorial policy. Staffers and editors plan, interview, draft and complete written and/or visual communications regularly. Newspaper production includes not		

only print, but digital and online media as well. Students will also acquire basic photojournalism principles and InDesignCC skills. This course requires leadership and teamwork as well as additional hours after school.

Newspaper Editor	**Credit: 1**	**HW Load**
Grade Placement: 12		
Prerequisite: Newspaper III		
Editors apply skills learned in Newspaper III to newspaper production. They lead staffers and oversee news coverage and editorial policy. Staffers plan, interview, draft and complete written and/or visual communications regularly. Newspaper production includes not only print, but digital and online media as well. Students will also acquire InDesign CC skills and basic photojournalism principles. This course requires leadership and teamwork as well as additional hours after school.		

Robotics I (Computer applications)	**Credit: 1**	**HW Load:** 
Grade Placement: 10 – 12		
Prerequisite: SciTech & Algebra I or Teacher approval.		
Robotics I is an exploratory course designed to introduce LASA students to the world of high technology through engineering principles. Robotics I is a one-year course covering the topics of computers in communication, electricity, pneumatics, kinematics, robotic sub-systems, teamwork, computer aided design and manufacturing procedures, 3-D modeling and motion testing. We spend time with LEGO Mindstorms robotics operations and in the actual construction of student designed robots. Typical software packages used include Autocad, Solidworks, Inventor, Robolab, MS Office. This course satisfies the Technology Application graduation requirement.		

Robotics II (electronics)	**Credit: 1**	**HW Load:**
Grade Placement: 10 – 12		
Prerequisite: Robotics I		
The purpose of the Robotics II course is to continue the development of LASA students into the world of high technology through engineering principles. Robotics II is a one-year course continuing the development, understanding, and application of the topics of electricity, data acquisition, pneumatics, kinematics, robotics, teamwork, design and manufacturing procedures, and introducing applications in a competitive environment and the development of robotic technology based community service projects. Typical software packages used include LabView, Autocad, Solidworks, Inventor, Robolab, MS Office. This course satisfies the Technology Application graduation requirement.		

Robotics III (Independent study)	**Credit: 1**	**HW Load:**
Grade Placement: 11 – 12		
Prerequisite: Robotics II		
Robotics III is a one-year course continuing the development, understanding, and application of the topics within robotics. It affords the students the opportunity to pursue independent interest within the field of robotics which could include, but not be limited to, custom drive trains, data acquisition, end manipulators, encoders, etc….		

Web Technologies	**Credit: 1**	**HW Load:** 
Grade Placement: 10–12		
Prerequisite: Intro to Computer Science or AP Computer Science Required		
Moving beyond the static pages of the early web, today's dynamic internet is based on serving web applications to users. Starting from the basics of how the web works, students will learn how to implement and deploy their own web applications. The projects will		

address password security as well as issues in scaling a web application to support large numbers of users. Topics covered include HTML, CSS, HTTP, JavaScript, cookies, processing user input, using databases, as well as security protocols and user verification. With mobile phone sales soon exceeding two billion units per year, mobile applications are in high demand. Develop real applications using Android Studio that run on your phone.

Yearbook I	**Credit: 1**	**HW Load:** 
Grade Placement: 9 – 12		
Prerequisite: Ezine or concurrent enrollment in Ezine		
Moving beyond the static pages of the early web, today's dynamic internet is based on serving web applications to users. Starting from the basics of how the web works, students will learn how to implement and deploy their own web applications. The projects will address password security as well as issues in scaling a web application to support large numbers of users. Topics covered include HTML, CSS, HTTP, JavaScript, cookies, processing user input, using databases, as well as security protocols and user verification. With mobile phone sales soon exceeding two billion units per year, mobile applications are in high demand. Develop real applications using Android Studio that run on your phone.		

Yearbook II	**Credit: 1**	**HW Load:**
Grade Placement: 10 – 12		
Prerequisite: Yearbook I		
In this yearlong, CTE, elective course, students will work as a team to produce the LASA yearbook. They will build on the skills that they learned in Yearbook I. Students in Yearbook II will have the experience of taking on more specialized roles and leading the staff. This course involves continuous collaboration, problem solving, team building, time management, and organization. These students serve as leaders, constantly monitoring the production process, asking the question: What can I do now? They lead by example, aware at all times that their positions involve multiple levels of interaction involving design, production, and training. They also compete with the UIL and nationally, and they have the opportunity to receive professional certifications		

Yearbook III	**Credit: 1**	**HW Load:**
Grade Placement: 11 – 12		
Prerequisite: Yearbook II		
In this yearlong, CTE, elective course, students will work as a team to produce the LASA yearbook. They will build on the skills that they learned in Yearbook II. Students in Yearbook III will be leading the staff alongside the editors. This course involves continuous collaboration, problem solving, team building, time management, and organization. These students serve as leaders, constantly monitoring the production process, asking the question: What can I do now? They lead by example, aware at all times that their positions involve multiple levels of interaction involving design, production, and training. They also compete with the UIL and nationally, and they have the opportunity to receive professional certifications.		

Yearbook Editor	**Credit: 1**	**HW Load:**
Grade Placement: 12		
Prerequisite: Yearbook III		
In this yearlong, CTE, elective course, students will lead the team as they produce the LASA yearbook. These students should have advanced photography, graphic design, journalism skills. They guide the staff in all decisions for the yearbook. They lead by example, aware at all times that their positions involve multiple levels of interaction involving design, production, and training. They also compete with the UIL and nationally, and they have the opportunity to receive professional certifications.		

Fine Arts Course Offerings - **courses with an * must have a teacher's signature on choice sheet**

Course Code	Course Name	Credits	Length	Grade	Prerequisites
5055.P000.Y	AP Studio Art	1	Year	11-12	Drawing
5000.R000.Y	Art 1	1	Year	9-12	None
5002.H000.Y	Ceramics	1	Year	10-12	Art 1

5032.H000.Y	Drawing	1	Year	10-12	Art 1
5062.R000.Y	Painting	1	Year	10-12	Art 1
5082.H000.Y	Printmaking	1	Year	10-12	Art 1
5092.H000.Y	Sculpture	1	Year	10-12	Art 1
	More Arts offerings can be found below in complete listing of courses:				

AP Studio Art: Drawing, 2-D Design, and 3-D design	**Credit: 1**	**HW Load: No Data Available**
Grade Placement: 11-12		
Prerequisite: Drawing, Printmaking, Painting, Ceramics, Sculpture		
Students enter this course with work from previous level III courses, as well as work completed over the summer. Having these pieces finished before the course begins will ensure that the students are on track to have their portfolio completed by May. The first three breadth pieces must be finished and photographed by the end of the first week so it is imperative that students enter the class with three strong finished pieces.		
The first semester covers the breadth section of the portfolio. This section is made of teacher based prompts that can be answered with medium(s) of the student's choosing. Students are encouraged to use mediums and techniques that they are already proficient with.		
The second semester is dedicated to the completion of the concentration section of the AP portfolio. Students will use a variety of mediums/techniques to develop a strong individual style. Concentrations should focus around a central theme of exploration and will consist of approximately 12 finished pieces. All AP students will present their work in a slide show presentation during gallery night and most will also take one of the AP Studio Art Exams and submit their portfolios to College Board.		

Art 1	**Credit: 1**	**HW Load:** 
Grade Placement: 9		
Prerequisite: None		
Art 1 is an art appreciation course in that Art 1 students will be exposed to a wide variety of mediums and techniques throughout the year and will focus on learning how to closely examine the world around them The class starts with learning how to translate what your eyes see into an under drawing, or framework, on which to build. Students develop drawing skills and complete a large mixed media self-portrait. This is followed by the creation of ceramic cups and bowls, still-life paintings in acrylic, palette knife landscapes, watercolor, individual and group linoleum and intaglio prints, and abstract sculptures. Students also interview artists at the East Austin Studio Tour and select one significant piece from art history to study and recreate.		
For more visit http://lasavisualart.weebly.com/art-1.html		

Ceramics	**Credit: 1**	**HW Load:** 
Grade Placement: 10-12		
Prerequisite: Art 1		
Students use design elements and principles while exploring ceramic techniques, clays, glazes, and firings. They explore surface treatment relating to form, variety in ceramic materials, and firing temperatures. Students begin with hand building techniques and will create several pieces for the Empty Bowl Project before moving on to large vessels, throwing on the pottery wheel and the		

eventual creation of a complete tea set. Students will leave this class with a complete understanding of basic low and mid fire clay bodies, glazes and techniques; as well as the start of a digital portfolio.

Drawing **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Art 1

Students use art elements and principles to develop skills and sensitivity in a variety of methods and techniques. They increase awareness of composition with abstract, non-objective, and realistic renderings. Students will use a variety of media such as graphite, prismacolor, charcoal, conte crayon, oil pastel, watercolor, India ink, digital media and collage. Students will study the human figure, portraits (animal and human), perspective, still life, landscape/dreamscape as well as working from imagination.

Painting **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Art 1

Students strengthen their concepts of design and continue experimental painting in both two and three dimensions. Students will explore acrylic, watercolor, oil and gouache paint. They will explore painting on different surfaces such as canvas board, furniture, mural boards and paper. Students will also learn to stretch and prepare their own canvas for painting on. Painting on a toned ground, glazing, scumbling, wet on wet, impasto and drybrush are a few of the many painting techniques this course heavily emphasizes. This course investigates color theory, composition as well as rendering from life and photographs.

Printmaking **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Art 1

This course allows personal expression and choice of techniques using elements and principles of design. Students will explore printmaking mediums such as linoleum (for relief printing) in black and white, color reduction printing in linoleum and woodcut, dry point on plexi glass, silkscreen printing on fabric and paper, monoprinting (additive, subtractive and found object) and cyanotype. Students will create an artist's book for their midterm exam that incorporates prints from the first semester.

Sculpture **Credit: 1** **HW Load:** 

Grade Placement: 10-12

Prerequisite: Art 1

Students will learn to sculpt with clay, paper, wire, glass and fabric. Projects will include an: abstract installation, life size bust, jewelry pieces, glass coasters, deconstructed screen printing and more. Students will also learn the basics of photography both to help them gain a better understanding of how to frame compositions and to learn how to professionally photograph their work. This class is recommended for students that would like to take AP 3D design the following year.

Elective Course Offerings - courses with an * must have a teacher's signature on choice sheet

Course Code	Course Name	Credits	Length	Grade	Prerequisites
1522.H000.X	How to Be An Adult	1/2	Semester	9 – 12	None

How to be An Adult	**Credit: 1/2**	**HW Load: New Course for 17-18**
Grade Placement: 9-12		
Prerequisite: None		
This elective will emphasize practicalities of the real world, empowering real-life documents, information, and experiences whenever possible. Students will create their own checking accounts, fill out job applications, create real budgets, fill out leases, change tires, write a resume, and do the work of adulthood. Compared to the proposed Consumer Economics course, this elective will deemphasize the mathematics side and focus instead on the everyday business of the grown-up world. It is intended as a broad overview rather than an in-depth study of individual topics.		

COMPLETE LIST OF LASA COURSE OFFERINGS

courses with an * must have a teacher's signature on choice sheet

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
ENGLISH CORE	1013.H000.Y	Pre-AP English I	1	Year	9	
	1023.H000.Y	Pre-AP English II	1	Year	10	English I
	1033.P000.Y	AP English III	1	Year	11	English II
	1043.P000.Y	AP English IV	1	Year	12	English III
ENGLISH ELECTIVES	1439.H000.X	American Film Analysis	1/2	Semester	10 – 12	English I
	1435.H000.X	Creative Writing (sem)	1/2	Fall	10 -12	English I
	1435.H000.Y	Creative Writing (year)	1	Year	10-12	English I
	1435.H200.Y	Creative Writing II	1	Year	10 – 12	Creative Writing
	1438.H200.Y	Hitchhiker's Guide to Sci Fi	1	Year	10 – 12	English I
	1849.R000.X	Literary Magazine I	1/2	Spring	10 -12	English I
	1852.H000.X	Literary Magazine II	1/2	Spring	11 -12	English I, Lit Mag I
	1855.H000.X	Literary Magazine III	1/2	Spring	12	English I, Lit Mag II
	1432.H000.X	Music and Revolution	1/2	Fall	10 -12	English I
	1448.H100.Y	Philosophy	1	Year	10 -12	English I
	1438.H000.Y	Psych Makeup of Hitchcock Characters	1	Year	9 - 12	None
	1435.H100.X	Screenwriting (semester)	1/2	Fall	10 -12	English I
	1435.H100.Y	Screenwriting (year long)	1	Year	10 -12	English I
	1448.H200.X	Song Writing	1/2	Spring	10 – 12	English I
	1438.H100.Y	Women's Literature	1	Year	10 – 12	English I
MATH CORE	3313.H000.Y	Pre-AP Algebra I	1	Year	9 -12	
	3413.H000.Y	Pre-AP Geometry	1	Year	9 -12	Algebra I
	3413.H100.Y	Geometry w/Bonus Content	1	Year	9 -12	Algebra I
	3323.H000.Y	Pre-AP Algebra II	1	Year	9 -12	Algebra I, Geometry
	3323.H100.Y	*Algebra II w/Bonus Content	1	Year	9 -12	Algebra I, Geometry
	3633.H000.Y	Precalculus AB	1	Year	9 -12	Alg I, Geo, Alg II
	3633.H100.Y	*Precalculus BC	1	Year	9 -12	Alg I, Geo, Alg II
MATH ELECTIVES	3510.H000.Y	*Adv Mathematical Reasoning	1	Year	10 -12	Algebra II
	3613.P000.Y	*AP Calculus AB	1	Year	10 -12	Precalculus
	3616.P000.Y	*AP Calculus BC	1	Year	10 -12	Precalculus
	3628.P000.Y	*AP Statistics	1	Year	10 -12	Algebra II (Precal rec)
	3807.H000.X	*Computational Problem Solving	1/2	Spring	10 -12	Algebra II
	3644.H000.Y	*Differential Equations	1	Year	10 -12	concurrent BC Calc
	8375.HC0C.Y	*Financial Mathematics	1	Year	10 –12	Alg II & concurrently w/another math course
	3625.H000.X	*Linear Algebra	1/2	Fall	10 -12	Precalculus
	3510.H000.X	*Logic, Set Theory, and Proofs	1/2	Fall	10 -12	Precalculus
	3646.H000.X	*Multivariable Calculus	1/2	Spring	10 -12	Calculus
	3463.H000.X	*Number Theory	1/2	Spring	10 -12	Precalculus

	3510.H900.Y	Stats II	1	Year	11 – 12	AP Stats (Calc rec)

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
SCIENCE CORE	4123.H000.Y	Pre-AP Biology	1	Year	9	None
	4323.H000.Y	Pre-AP Chemistry	1	Year	10	Pre-AP Biology
	4435.P000.Y	AP Physics	1	Year	11	Pre-AP Chemistry
SCIENCE ELECTIVES	8426.HC0C.Y	*Anatomy and Physiology	1	Year	11 - 12	Biology; Chemistry
	4137.P000.Y	AP Biology	1	Year	10 -12	Biology; Chemistry
	4334.P000.Y	AP Chemistry	1	Year	10 -12	Chemistry or placement test
	4237.P000.Y	AP Environmental Science	1	Year	11 - 12	Biology; Algebra I
	4438.P000.Y	AP Physics C	1	Year	11 - 12	Physics
	4436.P000.Y	AP Physics 2	1	Year	10 – 12	AP Physics Whole
	4239.H000.Y	Astronomy	1	Year	11 - 12	Biology; Chemistry
	8686.NC00.Y	Bio Technology	1	Year	11 - 12	Biology; Algebra I
	8718.NC00.Y	Bio Tech Internship	1	Year	12	Bio Technology
	8688.RC0C.Y	Engineering Design	1	Year	11 -12	Physics
	8582.RC0C.Y	Forensic Science	1	Year	11 - 12	Biology; Chemistry
	8428.HC0C.Y	*Medical Microbiology	1	Year	11 - 12	Biology; Chemistry
	4429.H000.Y	Modern Physics	1	Year	12	Physics; Calculus Rec
	8716.HC0C.Y	*Organic Chemistry	1	Year	11 - 12	Biology; Chemistry
	8722.HC0C.Y	*Organic Chemistry – Adv	1	Year	12	Organic Chemistry
	8430.HC0C.Y	*Pathophysiology	1	Year	12	Anatomy and Physiology
	8716.HC2C.Y	The Wicked Problem Project	1	Year	11 – 12	Chemistry
	8716.HC3C.Y	The Wicked Problem Project II	1	Year	11 -12	Wicked Problem Project
S.S. CORE	4513.H000.Y	Pre-AP World Geography	1	Year	9	None
	4623.P000.Y	AP World History	1	Year	10	World Geography
	4733.P000.Y	AP US History	1	Year	11	World History
	4841.P000.X	AP US Government	1/2	Fall or Spring	11 – 12	US History
	4946.P000.X	AP Macroeconomics	1/2	Fall or Spring	11 – 12	None
SOCIAL STUDIES ELECTIVES	5051.P000.Y	AP Art History	1	Year	10 – 12	None
	4842.P000.X	AP Comparative Government	1/2	Semester	11 -12	APUSH (or concurrent enr)
	4635.P000.Y	AP European History	1	Year	11 - 12	World History
	4523.P000.Y	AP Human Geography	1	Year	10 -12	World Geo; World Hist
	4945.P000.X	AP Microeconomics	1/2	Spring	12	None
	4938.P000.X	AP Psychology (Part I)	1/2	Fall	11 - 12	with 4938.H000.X
	4935.H000.X	AP Psychology (Part II)	1/2	Spring	11 - 12	with 4938.P000.X
	4942.H000.X	Amateur Radio	1/2	Fall or Spring	10 - 12	None
	4932.H100.X	Constitutional Law	1/2	Fall or Spring	11 - 12	None

	4932.H200.X	Contemporary Issues	1/2	Fall or Spring	11 - 12	None
	4932.H300.X	Facing History	1/2	Fall or Spring	11 - 12	None
	4932.H000.X	Mock Trial	1/2	Fall or Spring	10 - 12	None
	4942.H100.X	Model United Nations I	1/2	Fall or Spring	10 -12	World Geography
	4942.H200.X	Model United Nations II	1/2	Fall or Spring	11 - 12	Model UN I
	4942.H000.X	Native American Studies	1/2	Fall or Spring	11 – 12	A Push (or concurrent enrollment)
	4932.R000.X	Street Law	1/2	Fall or Spring	10 - 12	None

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
SIGNATURE COURSES	8280.HTOC.X	Electronic Magazine	1	Fall or Spring	9	None
	4023.H000.X	Science and Technology	1	Fall or Spring	9	None
	1441.H000.X	Great Ideas	1	Fall or Spring	10	None
	4206.H000.X	Planet Earth	1	Fall or Spring	10	None

ASL	2010.R000.Y	American Sign Language I	1	Year	9 -12	None
	2020.R000.Y	American Sign Language II	1	Year	9 – 12	ASL I
CHINESE	2461.R000.Y	Chinese I	1	Year	9 -12	None
	2462.R000.Y	Chinese II	1	Year	9 -12	Chinese I
	2463.H000.Y	Pre-AP Chinese III	1	Year	9 -12	Chinese II
	2464.P000.Y	AP Chinese IV	1	Year	9 -12	Pre-AP Chinese III
	2465.H000.Y	Chinese V	1	Year	9-12	AP Chinese IV
FRENCH	2013.R000.Y	French I	1	Year	9 -12	None
	2023.R000.Y	French II	1	Year	9 -12	French I
	2033.H000.Y	Pre-AP French III	1	Year	9 -12	French II
	2043.P000.Y	AP French IV	1	Year	9 -12	Pre-AP French III
	2053.H000.Y	French Literature V	1	Year	9 -12	AP French IV
	2063.H000.Y	French VI	1	Year	9 -12	French Literature V
GERMAN	2113.R000.Y	German I	1	Year	9 -12	None
	2123.R000.Y	German II	1	Year	9 -12	German I
	2133.H000.Y	Pre-AP German III	1	Year	9 -12	German II
	2143.P000.Y	AP German IV	1	Year	9 -12	Pre-AP German III
	2153.H000.Y	German V	1	Year	9 -12	AP German IV
JAPANESE	2471.R000.Y	Japanese I	1	Year	9 -12	None
	2472.R000.Y	Japanese II	1	Year	9 -12	Japanese I
	2473.H000.Y	Pre-AP Japanese III	1	Year	9 -12	Japanese II
	2474.P000.Y	AP Japanese IV	1	Year	9 -12	Pre-AP Japanese III
	2475.H000.Y	Japanese V	1	Year	9 -12	AP Japanese IV
LATIN	2213.R000.Y	Latin I	1	Year	9 -12	None
	2223.R000.Y	Latin II	1	Year	9 -12	Latin I
	2233.H000.Y	Pre-AP Latin III	1	Year	9 -12	Latin II
	2243.P000.Y	AP Latin IV Vergil	1	Year	9 -12	Pre-AP Latin III
	2253.H000.Y	Latin V	1	Year	9 -12	AP Latin IV Vergil
SPANISH	2313.R000.Y	Spanish I	1	Year	9 -12	None
	2323.R000.Y	Spanish II	1	Year	9 -12	Spanish I
	2333.H000.Y	Pre-AP Spanish III	1	Year	9 -12	Spanish II
	2343.H000.Y	Spanish IV	1	Year	9-12	Spanish III
	2343.P000.Y	AP Spanish IV	1	Year	9 -12	Spanish III
	2353.H000.Y	Spanish Literature V	1	Year	9 -12	AP Spanish IV
	2363.H000.Y	Spanish VI	1	Year	9 -12	AP Spanish Literature V

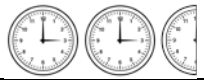
	Course Code	Course Name	Credits	Length	Grade	Prerequisites
P.E.	6021.R000.Y	Individual Sports I	1	Year	9 -12	None
CHORAL MUSIC	5401.R000.Y or R200	Varsity Mixed Choir I	1	Year	9 -12	None 
	5402.R000.Y or R200	Varsity Mixed Choir II	1	Year	10 -12	Varsity Mixed Choir I
	5403.R000.Y or R200	Varsity Mixed Choir III	1	Year	11 - 12	Varsity Mixed Choir II
	5404.R000.Y or R200	Varsity Mixed Choir IV	1	Year	12	Varsity Mixed Choir III
	5930.P000.Y	AP Music Theory	1	Year	10 -12	None
DANCE	5151.R000.Y	Dance I (Fine Arts Credit)	1	Year	9 -12	
	6565.R000.X	Dance I (PE Credit)	1/2	Fall	9 -12	
	6566.R000.X	Dance I (PE Credit)	1/2	Spring	9 -12	
	5152.R000.Y	Dance II	1	Year	10 -12	
	5153.H000.Y	Dance III	1	Year	11 - 12	
	5154.H000.Y	Dance IV	1	Year	12	
	6922.R010.X	Drill Team 1st Time Taken	1/2	Fall	9 – 12	
	6922.R020.X	Drill Team 2nd Time Taken	1/2	Fall	10 -12	
	6922.RL00.X	Drill Team 3rd & 4th Time	1/2	Fall	11 -12	
YEARBOOK AND JOURNALISM	8300.HC1C.Y	Adv. Journ. Yearbook I	1	Year	9 -12	Ezine or concurrent
	8302.HC1C.Y	Adv. Journ. Yearbook II	1	Year	10 -12	Adv. Journ. Yearbook I
	8281.HT2C.Y	Adv. Journ. Yearbook III	1	Year	11 - 12	Adv. Journ. Yearbook II
	1848.H000.Y	Yearbook Editor 1st Time	1	Year	11 - 12	Concurrent w/ Yearbook 3
	1848.H000.Y	Yearbook IV Editor	1	Year	12	Yearbook Editor 1st Time
	8300.HC0C.Y	Adv. Journ. Newspaper I	1	Year	9 -12	Ezine or concurrent
	8302.HC0C.Y	Adv.Journ. Newspaper II	1	Year	10 -12	Adv. Journ. Newspaper I
	8281.HT3C.Y	Adv.Journ. Newspaper III	1	Year	11 - 12	Adv.Journ. Newspaper II
	1848.H100.Y	Newspaper Editor 1st Time	1	Year	11 - 12	Concurrent w/ News 3
	1848.H100.Y	Newspaper IV Editor	1	Year	12	News Editor 1st Time

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
	0831.F000.X	Office/Teacher Aide	1/2	Fall or Spring	12	None
MISCELLANEOUS ELECTIVES	0831.F000.Y	Office/Teacher Aide	1	Year	12	None
	1522.H000.X	How To Be An Adult	1/2	Sem	9-12	None
	1420.R000.X	Delta (Health)	0	Fall or Spring	11 - 12	None
	9343.R000.Y	PRALS I	1	Year	11 - 12	None
	9353.R000.Y	PRALS II	1	Year	12	Prals I
	8598.RC0C.Y	Fire Fighter I	1	Year	11 - 12	Teacher Approval
	8600.HT0C.Y	Fire Fighter II	1	Year	12	Fire Fighter I
	8048.R000.Y	Sports Med I	1	Year	11 - 12	None
	8049.R000.Y	Sports Med II	1	Year	12	Sports Med I
	9511.R000.X	First Block Off Period	0	Semester	12	None
	9517.R000.X	Last Block Off Period	0	Semester	12	None
	9511.R100.Y	First Block Off Period	0	Year	12	None
	9517.R100.Y	Last Block Off Period	0	Year	12	None

MEDIA AND TECHNOLOGY	8262.HT0C.Y	Audio Video Production (AVP)	1	Year	9 -12	None
	8270.HT1C.Y	AVP – Advanced	2	Year	10 -12	AVP
	8283.RC0C.Y	AVP – Practicum	2	Year	11 - 12	Advanced AVP
	8758.H000.Y	*AVP - Ind Study in Tech Apps	1	Year	11-12	AVP
	8276.RC0C.Y	Commercial Photography	1	Year	10 – 12	None
	8542.HT0C.Y	Computer Science – Intro	1	Year	9 -12	None
	3803.P000.Y	Computer Science AP	1	Year	9 -12	None
	8544.HT1C.Y	Computer Science – Adv	1	Year	10 -12	AP Comp Sci
	8758.H100.Y	*Computer Science - Ind Study in Tech Apps	1	Year	9 -12	Adv Comp Science or Digital Electronics
	8764.HT2C.Y	Digital Electronics	1	Year	10 - 12	Teacher Approval or Intro or AP CS
	8297.RC0C.Y	Fashion Design	1	Year	9 – 12	None
	8281.HT1C.Y	Graphic Design – Advanced	1	Year	10 - 12	Electronic Magazine
	8300.HC1C.Y	Graphic Design 3 - Problems & Solutions I	1	Year	10 -12	Adv Graphic Design
	8302.HC1C.Y	Graphic Design 4 - Problems & Solutions I				
	8718.HC2C.Y	Robotics I	1	Year	10 -12	Sci Tech
	8722.HC2C.Y	Robotics II	1	Year	11-12	Robotics I
THEATRE ARTS	8723.HC2C.Y	Robotics III	1	Year	12	Robotics II
	8550.HT0C.Y	Web Technologies	1	Year	10 -12	Intro Comp Sci or AP Computer Science
	5611.R000.Y	Theatre Arts I	1	Year	9-12	None
	5612.R000.Y	Theatre Arts II	1	Year	9-12	Theatre Arts I
	5613.H000.Y	Theatre Arts III	1	Year	11 - 12	Theatre Arts II
	5614.H000.Y	Theatre Arts IV	1	Year	12	Theatre Arts III
	5601.R000.Y	Musical Theatre	1	Year	9 -12	None
	5691.R000.Y	Technical Theatre I	1	Year	9 -12	None
	5692.R000.Y	Technical Theatre II	1	Year	10 -12	Technical Theatre I
	5693.H000.Y &R	Technical Theatre III	1	Year	11 - 12	Technical Theatre II
	5694.H000.Y &R	Technical Theatre IV	1	Year	12	Technical Theatre III

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
FINE ARTS	5055.P000.Y	AP Studio Art	1	Year	11-12	Drawing
	5000.R000.Y	Art 1	1	Year	9-12	None
	5002.H000.Y	Ceramics	1	Year	10-12	Art 1
	5032.H000.Y	Drawing	1	Year	10-12	Art 1
	5062.R000.Y	Painting	1	Year	10-12	Art 1
	5082.H000.Y	Printmaking	1	Year	10-12	Art 1
	5092.H000.Y	Sculpture	1	Year	10-12	Art 1

	Course Code	Course Name	Credits	Length	Grade	Prerequisites
INSTRUMENTAL MUSIC	6331.R010.X	Marching Band I	1/2	Fall	9 -12	None
	6331.R020.X	Marching Band II	1/2	Fall	10 -12	Marching Band I
	6331.RL00.X	Marching Band III	1/2	Fall	11 - 12	Marching Band II
	5201.R000.Y	Concert Band I	1	Year	9 -12	None 
	5202.R000.Y	Concert Band II	1	Year	10 -12	Band I
	5203.H000.Y	Concert Band III	1	Year	11 - 12	Band II
	5204.H000.Y	Concert Band IV	1	Year	12	Band III
	5201.R100.Y	Symphonic Band I	1	Year	9 -12	None 
	5202.R100.Y	Symphonic Band II	1	Year	10 -12	Band I
	5203.H100.Y	Symphonic Band III	1	Year	11 - 12	Band II
	5204.H100.Y	Symphonic Band IV	1	Year	12	Band III
	5201.R200.Y	Wind Ensemble I	1	Year	9 -12	None 
	5202.R200.Y	Wind Ensemble II	1	Year	10 -12	Band I
	5203.H200.Y	Wind Ensemble III	1	Year	11 - 12	Band II
	5204.H200.Y	Wind Ensemble IV	1	Year	12	Band III
	5211.R200.Y	Piano I	1	Year	9 -12	None 
	5212.R200.Y	Piano II	1	Year	10 -12	Piano I
	5211.R300.Y	Guitar I	1	Year	9 -12	None
	5212.R300.Y	Guitar II	1	Year	10 -12	Guitar I
	5221.R000.Y	Jazz Ensemble I	1	Year	9 -12	None
	5222.R000.Y	Jazz Ensemble II	1	Year	10 -12	Jazz Ensemble I
	5223.H000.Y	Jazz Ensemble III	1	Year	11 - 12	Jazz Ensemble II

	5224.H000.Y	Jazz Ensemble IV	1	Year	12	Jazz Ensemble III
	5321.R000.Y	Freshman Orchestra I	1	Year	9	None 
	5322.R100.Y	Concert Orchestra II	1	Year	10 -12	Freshman Orchestra I
	5323.R100.Y	Concert Orchestra III	1	Year	11 - 12	Philharmonic Orchestra II
	5324.R100.Y	Concert Orchestra IV	1	Year	12	Philharmonic Orchestra III
	5322.R200.Y	Camerata Orchestra II	1	Year	10 -12	Orchestra I; Audition
	5323.H200.Y	Camerata Orchestra III	1	Year	11 - 12	Orchestra II; Audition 
	5324.H200.Y	Camerata Orchestra IV	1	Year	12	Orchestra III; Audition

	Fall Course Code	Spring Course Code	Sport Description
ATHLETICS	6901.R130.X	6901.R140.X	Wrestling 10th Boys (After School)
	6901.R150.X	6901.R160.X	Wrestling 11th Boys (After School)
	6901.R170.X	6901.R180.X	Wrestling 112th Boys (After School)
	6901.R230.X	6901.R240.X	Wrestling 10th Girls (After School)
	6901.R250.X	6901.R260.X	Wrestling 11th Girls (After School)
	6901.R270.X	6901.R280.X	Wrestling 12th Girls (After School)
	6911.R030.X	6911.R040.X	Baseball 10th (After School)
	6911.R050.X	6911.R060.X	Baseball 11th (After School)
	6911.R070.X	6911.R080.X	Baseball 12th (After School)
	6912.R110.X	6912.R120.X	Boys Basketball 9th
	6912.R130.X	6912.R140.X	Boys Basketball 10th
	6912.R150.X	6912.R160.X	Boys Basketball 11th
	6912.R170.X	6912.R180.X	Boys Basketball 12th
	6912.R210.X	6912.R220.X	Girls Basketball 9th
	6912.R230.X	6912.R240.X	Girls Basketball 10th
	6912.R250.X	6912.R260.X	Girls Basketball 11th
	6912.R270.X	6912.R280.X	Girls Basketball 12th
		6913.R120.X	Boys Track and Field 10th (After School)
		6913.R130.X	Boys Track and Field 11th (After School)
		6913.R140.X	Boys Track and Field 12th (After School)
		6913.R220.X	Girls Track and Field 10th (After School)
		6913.R230.X	Girls Track and Field 11th (After School)
		6913.R240.X	Girls Track and Field 12th (After School)
	6914.R120.X		Boys Cross Country 10th (Before School)
	6914.R130.X		Boys Cross Country 11th (Before School)
	6914.R140.X		Boys Cross Country 12th (Before School)
	6914.R220.X		Girls Cross Country 10th (Before School)
	6914.R230.X		Girls Cross Country 11th (Before School)
	6914.R240.X		Girls Cross Country 12th (Before School)
	6921.R010.X		Cheerleading 1st Time Taken
	6921.R020.X		Cheerleading 2nd Time Taken
	6915.R030.X		Volleyball 10th (After School)
	6915.R050.X		Volleyball 11th (After School)
	6915.R070.X		Volleyball 12th (After School)
	6916.R130.X	6916.R140.X	Boys Golf 10th (After School)
	6916.R150.X	6916.R160.X	Boys Golf 11th (After School)
	6916.R170.X	6916.R180.X	Boys Golf 12th (After School)
	6916.R230.X	6916.R240.X	Girls Golf 10th (After School)
	6916.R250.X	6916.R260.X	Girls Golf 11th (After School)
	6916.R270.X	6916.R280.X	Girls Golf 12th (After School)

	Fall Course Code	Spring Course Code	Sport Description
ATHLETICS	6918.R030.X		Swimming 10th (Bf.S.)
	6918.R050.X		Swimming 11th (Bf.S.)
	6918.R070.X		Swimming 12th (Bf.S.)
	6919.R030.X	6919.R040.X	Tennis 10th (After School)
	6919.R050.X	6919.R060.X	Tennis 11th (After School)
	6919.R070.X	6919.R080.X	Tennis 12th (After School)
	6923.R010.X	6923.R020.X	Football 9th
	6923.R030.X	6923.R040.X	Football 10th
	6923.R050.X	6923.R060.X	Football 11th
	6923.R070.X	6923.R080.X	Football 12th
		6924.R140.X	Boys Soccer 10th (After School)
		6924.R160.X	Boys Soccer 11th (After School)
		6924.R180.X	Boys Soccer 12th (After School)
		6924.R240.X	Girls Soccer 10th (After School)
		6924.R260.X	Girls Soccer 11th (After School)
		6924.R280.X	Girls Soccer 12th (After School)
		6925.R040.X	Softball 10th (After School)
		6925.R060.X	Softball 11th (After School)
		6925.R080.X	Softball 12th (After School)