



Program
of
Studies
2022-2023

Art work by
Sofia Ochoa '24

**Stoneham High School
Program of Studies
2023 - 2024**

Administration

**Bryan Lombardi
Principal**

**Sarah Auger
Assistant Principal**

**TBD
Humanities Supervisor**

**Michael Luyet
STEM Supervisor**

**Courtney Hudgins
Special Education Coordinator**

**David Pignone
Athletic Director
Physical Education Department Supervisor**

Main Office

**Ellen Willard
Registrar/Attendance Secretary**

**Robin Yeomelakis
Administrative Assistant to the Principal**

Main Office Telephone: 781-279-1380

Fax: 781-279-2070

TABLE OF CONTENTS

<u>MISSION STATEMENT</u>	1
<u>STUDENT LEARNING EXPECTATIONS</u>	1
<u>PRINCIPAL'S FORWARD</u>	2
<u>SCHOOL COUNSELING DEPARTMENT</u>	3
<u>SUGGESTED STEPS IN PROGRAM PLANNING</u>	4
<u>PROMOTION AND GRADUATION REQUIREMENTS</u>	5
<u>LEVELS OF INSTRUCTION</u>	6
<u>SUGGESTED COURSE PATTERNS</u>	7
<u>THE MARKING SYSTEM</u>	8
<u>DETERMINING RANK IN CLASS</u>	9
<u>HONOR ROLL</u>	9
<u>SUMMER SCHOOL</u>	10
<u>COURSE AND LEVEL CHANGES</u>	10
<u>ALTERNATIVE EDUCATION OPTIONS</u>	10
<u>STEM PATHWAYS</u>	12
<u>COURSE DESCRIPTIONS</u>	13
<u>ENGLISH</u>	13
<u>FAMILY AND CONSUMER SCIENCE</u>	18
<u>FINE AND PERFORMING ARTS</u>	22
<u>HEALTH EDUCATION</u>	28
<u>HISTORY AND SOCIAL SCIENCES</u>	30
<u>MATHEMATICS</u>	38
<u>PHYSICAL EDUCATION</u>	45
<u>SCIENCE/STEM</u>	46
<u>TECHNOLOGY</u>	55
<u>WORLD LANGUAGES</u>	59
<u>ENGLISH LANGUAGE LEARNING</u>	68
<u>SPECIAL EDUCATION</u>	70

Mission Statement

Stoneham High School Community Strives

- To foster intellectual curiosity and integrity within all students
- To encourage students to take personal responsibility for their learning
- To establish a community of informed and engaged world citizens

Stoneham High School Core Values:

Curiosity
Integrity
Responsibility
Community

Learning Expectations of Students:

1. Students analyze problems and present solutions to them in diverse and innovative ways.
2. Students demonstrate personal responsibility and respect toward others.
3. Students use appropriate technology and tools to access, evaluate and effectively apply information.
4. Students think critically and communicate clearly and effectively.
5. Students engage successfully in independent and collaborative work.

These Learning Expectations are at the core of the skill development provided at Stoneham High School. Though all these expectations will be present in all academic experiences within SHS we have linked specific expectations with departments.

Expectations	Academic Department
Students analyze problems and present solutions to them in diverse and innovative ways.	Math and Science
Students demonstrate personal responsibility and respect toward others.	Health and Physical Education
Students use appropriate technology and tools to access, evaluate and effectively apply information.	History and Social Sciences
Students think critically and communicate clearly and effectively.	English and World Language
Students engage successfully in independent and collaborative work.	Elective courses

Principal's Forward

The Stoneham High School Program of Studies presents a wide range of courses, including essential information on graduation requirements and educational opportunities offered, to engage and challenge all students while meeting individual needs and goals. We emphasize a high level of academic rigor and provide a meaningful educational experience for every student. Each of our courses are carefully crafted to provide opportunities to engage our learning expectations.

The course selection process is an important one and should not be limited to this publication. The most important element in a successful academic program is the student. Each year brings a new opportunity to design a selection of courses that speaks directly to the students' interests and aspirations.

When scheduling, I urge students to consider both challenge and balance. All courses provide rigor and academic challenge to nourish mental growth. High school is a unique time to explore and develop student strengths and interests; therefore, students should take the opportunity to enroll in classes that adhere to their passions and hearts. Students' interests, abilities, past performance, and goals for the future are all important factors that need to be considered when scheduling.

Students will have multiple opportunities to receive support from teachers and school counselors in building an appropriate schedule. I encourage students to spend time exploring and discussing options with your parents and guardians. Your careful and thoughtful attention to the course selection process will help us develop an educational program that best meets your needs and interests. It is important to note that your course schedule is built based on the courses you choose; no course changes will be allowed unless for reasons as detailed in the Course Selection section of this Program.

Stoneham High School has an excellent educational program taught by a talented and dedicated faculty. This high school is committed to providing each student with an education in which essential information and skills are learned, knowledge is explored, and ideas are critically analyzed and evaluated.

Bryan Lombardi
Principal
Stoneham High School

School Counseling Department

Office Hours: 7:30 am - 3:30 pm

781-279-3810 x1326

Fax: 781-279-2115

Philosophy

The philosophy of the Stoneham High School Counseling Department is to help all students successfully navigate through high school academically, socially and personally. The School Counseling Department aligns and works with the school's mission statement and learning expectations in supporting the academic achievement of all students. The Massachusetts Model for Comprehensive School Counseling and the ASCA National Model with their data-driven and results-based focus serves as a guide for the SHS school counseling team. The emphasis of the School Counselor program is to maximize the potential of all students through a comprehensive developmental approach.

Role of the School Counselor: The school (guidance) counselor works to assist students to become healthy and effective human beings as they transition to adulthood. This is done through individual, small and large group consultation. Counselors work to support students through collaboration with families, school, and community resources.

Role of the School Adjustment Counselor: Responsible for supporting the social and emotional well being of all students in order to achieve academic success. The School Adjustment Counselor is a key member of the Student Support Team and works directly with the Counseling Department and Administration to ensure a safe and a positive school climate.

Counselors may be contacted directly at the following numbers or by email. All counselors have voicemail.

School Counselors

Celeste Vaughan 781-279-3810 x1328, cvaughan@stonehamschools.org (last names A-E)

Nicole Dillon 781-279-3810 x1330, ndillon@stonehamschools.org (last names F-H)

Kristin Ronayne 781-279-3810 x1329, kronayne@stonehamschools.org (last names I-O)

Liz Denman 781-279-3810 x1327, ldenman@stonehamschools.org (last names P-Z)

Adjustment Counselor

Amy Sancinito 781-279-3810 x1335, asancinito@stonehamschools.org

School Psychologist

TBD

Transition Specialist

Carly Donelson 781-279-3810 x1357, cdonelson@stonehamschools.org

School Counseling Department Administrative Assistant

Nancy Polizzi 781-279-3810 x1326, npolizzi@stonehamschools.org

SUGGESTED STEPS IN PROGRAM PLANNING

The parent and the student, with the assistance of the guidance department, should plan together the subjects the student will take, both for the following year and the remainder of their high school years.

Three important steps, however, should precede the actual choice of subjects:

1. PLAN AHEAD

Explore what the student hopes to do after graduation by discussing interests, goals and ambitions. Does the student want to go to a liberal arts or an engineering college? Do they prefer a two-year college or a technical school? Does the student expect to go directly into business or industry?

2. CHOOSE REALISTIC GOALS

Make sure that this preliminary plan is a reasonable and realistic one that will challenge their ability but also one that will not demand the impossible. Several questions will help guide this planning. How strong of a student are they? What kind of school record does the student possess? Will part-time work interfere with their studies? How hard is the student willing to work to achieve their goal? The guidance department can provide parents with information that will be helpful in answering these questions.

3. SELECT SUBJECTS FOR NEXT YEAR

Once possible goals beyond high school have been established, the parents and the students can proceed to the selection of subjects. To do this, students should consult the guidelines that are included in this booklet. Suggested programs for preparation for a wide variety of educational or vocational goals are listed.

PROMOTION AND GRADUATION REQUIREMENTS

- Each student is required to carry seven courses per semester
- In some cases, it may be necessary for the school to suggest a revision in the student's preliminary choice of subjects. The reason for such a change will, of course, be explained to the student, and the parent will be asked to approve any substantive changes.

Stoneham High School Promotion Requirements

The total number of credits needed for graduation: 115

- Expected start of Grade 10: 30 credits
- Expected start of Grade 11: 60 credits
- Expected start of Grade 12: 90 credits

Stoneham High School Graduation Requirements

1. Pass twenty (20) credits of English. Students are required to take one (1) English course per school year. For seniors, a sequential course may be the combination of two senior courses of their choice that meets graduation requirements, one each semester, if they do not elect a year-long senior course. General English electives do not meet the English Department graduation requirements.
2. Pass a minimum of fifteen (15) credits in Social Studies including:
 - United States History I
 - United States History II
 - Modern World History
3. Pass a minimum of twenty (20) credits in mathematics; four (4) full years or eight (8) semesters of study, including Algebra I and Geometry.
4. Pass a minimum of fifteen (15) credits in science, including Biology.
5. Pass Health Education (2.5) credits.
6. Pass ten (10) credits in Physical Education.
7. Earn five (5) credits in art and/or music courses.
8. Earn 2.5 credits in an approved technology course.

Commonwealth of Massachusetts Requirement for Graduation

Students must earn a passing score on the MCAS tests in English Language Arts (ELA) and Mathematics, and one of the Science and Technology/Engineering (STE) tests (Biology or Introductory Physics) to meet their Competency Determination (CD) standard. [DESE regulations](#)

Educational Proficiency Plans (EPPs)

The Department of Education requires an Educational Proficiency Plan for some students who score in the Not Meeting Expectations category. Please see DESE guidelines for further information: [DESE regulations](#)

Each EPP includes, at a minimum:

- a review of the student's strengths and weaknesses, based on MCAS and other assessment results, coursework, grades, and teacher input
- the courses the student will be required to take and successfully complete in grades 11 and 12
- a description of the assessments the school will administer on a regular basis to determine whether the student is moving toward proficiency.

Minimum Attendance Requirement

In order to graduate from Stoneham High School, one must be in attendance as a full-time student for the entire semester preceding graduation.

LEVELS OF INSTRUCTION

Courses at Stoneham High School are offered at various levels. The methods of instruction and materials used are designed to meet the needs and abilities of students at each level. Other courses are offered for a heterogeneous or mixed-ability group and instruction is tailored to meet the needs of students within each class. When selecting courses, students should consult with their teachers, school counselors and parents. A description of the different levels and the expectations are noted below. Each student is encouraged to progress at his/her own rate and is provided with opportunities for maximum growth. Students need not select the same level in all subjects. It is also possible for a student who shows a significant change in achievement to move to a different level. The various levels are noted on all transcripts or applications in order that a school, college, or employer may correctly interpret the student's achievement.

Special Note: While it is the aim of the school to give each student his/her chosen level of instruction in every course, instances may occur when this is not possible because of class size or insufficient numbers electing a certain course or level.

College Preparatory:

These courses feature structured, scaffolded instruction to allow for more individualized attention and foster academic independence. These courses provide a learning environment which supports foundational work and help students strengthen college and career readiness skills.

Advanced College Preparatory:

These are career and college preparatory courses which include increasing independence on inquiry, problem solving, critical thinking, and reading and writing within each content area. ACP courses offer academic preparation for students planning to further their education beyond high school in two or four-year college programs.

Honors:

These are more rigorous college preparatory courses in which materials taught are at an accelerated pace. Students are expected to work more independently on inquiry, problem solving, critical thinking, and reading and writing within each content area. These courses provide a strong foundation for future studies in each field.

Advanced Placement:

These courses are conducted at a standard comparable to college work. Courses are rigorous and materials taught are at an accelerated pace and greater depth. Students work independently on inquiry, problem solving, critical thinking, and reading and writing within each content area. These courses offer students the opportunity to take college-level courses and exams in high school and earn college credit, advanced placement, or both at many colleges and universities in the U.S. and around the world. Students taking AP courses are expected to take the Advanced Placement test for the content area of their course in May. The cost of each AP test is determined and published by the College Board

UNLEVELED (UNL)

Some courses do not require levels in order to be adequately presented.

SUGGESTED COURSE PATTERNS

Since students have different abilities, needs, and aspirations, course patterns will vary greatly from student to student. Each year teachers make level recommendations to students and parents. The final decision in course and level selection is that of the student and his/her parents.

Colleges and schools vary greatly in their requirements and in the credentials of the students they accept. The strength of a student's transcript is determined by the difficulty of the courses taken as well as the grades earned.

Colleges consider grades, quality of high school courses, class rank, standardized test scores, extra-curricular activities and special talents of the applicant in making the admissions decision. The quality of a student's high school program increases in importance with the competitiveness of the college to which he/she is applying. Within a given college or university, one major may be more competitive than another. If you have any questions concerning course patterns, consult your counselor.

Massachusetts State Universities and UMass Minimum Course Requirements

Although some colleges may have additional requirements, minimum coursework which totals seventeen (17) college preparatory courses are presently required by the state universities and UMass system. A course is equivalent to one full school year of study. Courses count toward the distribution only if passed.

Subject	Requirements for entering college freshman
English	4 Courses
Mathematics	4 courses (Algebra I & II and Geometry or Trigonometry, or comparable coursework) including mathematics in the final year of high school
Sciences	3 courses (from Natural Science and/or Physical Science and/or Technology/Engineering), including 3 courses with laboratory work
Social Studies	2 courses (including 1 course in U.S. History)
World Language	2 courses in a single language Note: American Sign Language (ASL) is a world language
Electives	2 courses (from the above subjects or from the Arts & Humanities or Computer Sciences)

Students interested in attending a Massachusetts state college or university should meet with their counselors to determine if they meet the minimum requirements.

THE MARKING SYSTEM

Numerical Grade	Letter Grade	Quality Points
98 - 100	A+	4.4
94 - 97	A	4.0
90 - 93	A-	3.7
87 - 89	B+	3.4
84 - 86	B	3.0
80 - 83	B-	2.7
77 - 79	C+	2.4
74 - 76	C	2.0
70 - 73	C-	1.7
67 - 69	D+	1.4

64 - 66	D	1.0
60 - 63	D-	0.7
59 or below	F	0.0
Withdrawal Pass (60 or above)	WP	Not used for rank in class
Withdrawal Fail (59 or below)	WF	Not used for rank in class
Passing	P	Not used for rank in class

RANK IN CLASS

Students are ranked within their graduating class according to their weighted cumulative grade point average and assigned quality points.

Students are ranked at the end of each academic year and this rank is given to students during the following fall quarter.

In addition, seniors are ranked at the end of the first semester.

DETERMINING RANK IN CLASS

1. Letter Grades will be translated to quality points as detailed in the Marking System chart above.
2. In addition, college level subjects will be weighted on this basis:
 - AP level Grades are weighted 1.1
 - Honors level Grades are weighted 1.0
 - Advanced College Prep. level Grades are weighted 0.5
 - College Preparatory level Grades are weighted 0.2
 - UNL Grades are unweighted.

HONOR ROLL

Students earn placement on the Honor Roll if they meet the following requirements:

- **High Honors:** A minimum of five "A"s" and no grade lower than a "B" in all subjects.
- **Honors:** A minimum of all "B's" in all subjects.

Honor roll designations occur at the following grade reporting schedule:

- End of Quarter 1
- End of Quarter 2
- End of Quarter 3
- End of Quarter 4

SUMMER SCHOOL

- A student may go to summer school to make up any course they failed during the school year, provided they meet the criterion of having received a passing grade for at least two quarters and/or one semester.
- A student must take the remedial course at the Stoneham Summer School if it is offered through the school.
- If a course is to be taken at another school, the High School Principal must grant prior permission before credit can be granted toward graduation or promotion.

COURSE and LEVEL CHANGES

Significant decisions are based upon student course requests and scheduling; therefore it is prudent that students make their selections with extreme thought and planning with regard to course level, overall course load, academic and post secondary goals, balance of schedule with rigor and electives, and courses of passion and interest. Our expectation is that students will be thoughtful and active in their course selection process and utilize their school counselor, teachers and parents to assist in course selection that is best for them.

With this in mind, course and level changes are discouraged. However, we acknowledge that at times course and / or level changes are necessary to best meet the needs of students. Therefore, changes will only be permitted for the following criteria:

- A prerequisite has not been met
- A course was made up in summer school
- To correct placement in an inappropriate academic level
- To meet high school graduation or college admissions requirements

Any change, based upon the stated criteria, must also include permission from a teacher, school counselor, administrator, and parent.

- Level changes are only considered for students not making effective academic progress as demonstrated by a grade average of a D or F range and only permitted with final approval by both Program Supervisor, Department Head and Principal.
- If the change made is a level change within the same content area, the grades earned in the dropped course will transfer to the added course.
- Any subject dropped after four weeks will be recorded as a WF or WP (Withdrawal Fail / Withdrawal Pass) for a final grade in that subject.

ALTERNATIVE LEARNING OPTIONS

Alternative Learning Options include distance learning, dual enrollment, internships, work study and STEM pathways. All alternative educational options need prior approval from school counselors and SHS administration. These opportunities may not count towards graduation requirements, but will count toward credit requirements. Students should discuss options with their School Counselor to ensure correct credit accumulation.

DISTANCE LEARNING	2.5 / 5 Credits
Grades 11 and 12	
Students may request the ability for distance learning opportunities from accredited providers and with the prior approval of School Counselor, Program Supervisor and Principal. No courses which are provided at SHS are permitted. Students are responsible for all fees incurred.	

DUAL ENROLLMENT	5 Credits
Grades 11 and 12	
<p>Stoneham High School defines Dual Enrollment courses as: Courses taken at a 2 or 4-year accredited college (online or on site) where the student earns credit at the high school and the college.</p> <ul style="list-style-type: none"> • A 3 credit course would typically equate to 5 credits at Stoneham High School. • The high school transcript will indicate the course name, the college, and credit earned. • The grade will be calculated into the GPA. • Dual Enrollment courses cannot be taken in place of high school graduation requirements (except in special circumstances with permission of administration). • Students who take developmental/remedial courses based on the results of the college's placement test will receive elective credit upon successful completion of the course. <p>Eligibility and Program Requirements:</p> <ul style="list-style-type: none"> • The student must be a high school junior or senior and making satisfactory progress toward high school graduation. • The student/family must accept the responsibility for all tuition and educational expenses associated with the Dual Enrollment course(s). An exception may be if the state is funding courses taken through the Board of Higher Education's Dual Enrollment Program. Please contact the college directly for cost information. • The student is responsible for contacting the college and registering for the college course. This includes completing any applications or placement tests. • The student is responsible for giving a copy of their course registration from the college to their school counselor. • Immediately following the completion of the course, the student is responsible for giving a copy of the official college transcript to their school counselor in order to be included on their SHS transcript. • Students may register for more than one college level course per semester with approval from administration. 	

6905 INTERNSHIP	2.5 Credits/Semester Course
Grades 11 and 12	
<p>The Internship course includes both in-school and out-of-school internships and encourages students to become immersed in an occupation or career pathway of their interest. Prior to enrolling in this course, students should explore career interests and independently find a suitable internship with a local community employer. This course offers students an opportunity to develop their professional skills, receive mentorship from a community employer and set goals to further define their career pathways. Students will be required to submit regular records of hours. Students are required to attend their internship a minimum of 7.5 hours per week. This course is pass / fail.</p>	

6900 TEACHER ASSISTANT	2.5 Credits/Semester Course
Grades 12	
<p><i>Prerequisite: Teacher and Department Supervisor / Principal or Assistant Principal approval</i></p> <p>Teacher's Assistant (TA) is an opportunity for a student to work alongside a teacher for a particular course or subject area. The Teacher Assistant position provides students an opportunity to take on a leadership role and support their peers and faculty in the classroom. This course offers students opportunities to build upon leadership skills, learn classroom administrative and organization skills, build positive relationships with peers/staff, and learn effective teaching methods of classroom curriculums. Throughout the semester, the student will support the teacher in preparing class materials, compiling lesson resources, assisting in review sessions, and completing tasks to support the learning process. This opportunity will support students in developing knowledge and skills transferable for jobs within that particular subject area or within a larger educational setting. Teacher Assistants are required to attend each class period in line with our established attendance policy. This course is pass / fail.</p>	

6903 WORK STUDY	2.5 Credits/Semester Course
Grades 11 and 12	
<p><i>Prerequisite: Proof of employment</i></p> <p>The work-study course is offered to students who are seeking a credit to help in balancing school course loads and part-time work positions outside of school. This course will support students in successfully navigating the working world, managing the responsibilities of holding a job and improving upon transferable skills while strengthening their work-readiness. Students will be required to submit regular records of hours worked by way of paystubs or time cards. Students are required to work a minimum of 7.5 hours per week. Students will only be scheduled for one work study per semester, unless otherwise approved by the administration. This course is pass / fail.</p>	

Science, Technology, Engineering, Mathematics (STEM) Pathways

STEM education integrates concepts that are traditionally taught as separate subjects in different classes and emphasizes the application of knowledge to real-life situations. A lesson or unit in a STEM class is typically based around finding a solution to a real-world problem and tends to emphasize project-based learning. A variation of STEM is STEAM, which includes art and design. Artistic design is becoming an important part of STEM education since creativity is an essential part of innovation. Many STEM lessons involve building models and simulating situations. A good STEM lesson ensures that students understand the connection to the real world.

Following the Project Lead The Way (PLTW) program, Stoneham Central Middle School students took a variety of STEM courses. These courses emphasized group work around critical thinking, collaboration, creation and collaboration. Stoneham High School is proud to provide students with the opportunity to continue these high quality STEM programs. We are developing three STEM pathways, Biomedical Science (Introduction to Biomedical Science, Human Body Systems, and Medical Interventions), Computer Science (Cybersecurity, Computer Science Essentials, and AP Principles of Computer Science), Engineering (Introduction to Engineering Design, Principles of Engineering). Stoneham High School will be expanding these pathways each year ultimately to provide a minimum

of four courses in each pathway. When students take selected AP and PLTW courses related to the fields of engineering, biomedical science, and computer science (and earn qualifying scores on course-related exams and assessments), they may earn the AP + PLTW Student Achievement, a recognition that shows colleges and employers that students are prepared for advanced future course work, and are interested in careers in the field they are studying. In addition, Stoneham High School provides students with the opportunity to take a variety of courses providing instruction in multimedia, student technology leadership and online learning,

Current PLTW Courses offered at Stoneham High School

Biomedical	Engineering	Computer Science
Principles of Biomedical Science	Introduction to Engineering Design	Computer Science Essentials
Human Body Systems	Principles of Engineering	Computer Science Principles
Medical Interventions (possible 2023-2024 school year)		

COURSE DESCRIPTIONS

Semester courses = 2.5 credits

Year long courses = 5 credits

ENGLISH

Graduation Requirement - 20 credits

Philosophy

The English Department follows the Massachusetts Curriculum Frameworks in teaching Reading, Writing, Language as well as Speaking and Listening Standards. Thinking critically, communicating effectively, and working both independently and collaboratively are essential skills students require to be successful after high school. Understanding how texts are structured in conjunction with multiple learning strategies prepares students for standardized tests as well as accessing challenging work. Class reading lists include relevant and multicultural selections to build engagement and offer global perspectives.

ENGLISH I	5 Credits
1101 / Honors <ul style="list-style-type: none"> Prerequisite: Minimum grade of A- in grade 8 English and/or teacher approval 1102 / Advanced College Prep <ul style="list-style-type: none"> Prerequisite Successful completion of grade 8 English and teacher approval 1103 / College Prep <ul style="list-style-type: none"> Prerequisite Successful completion of grade 8 English and teacher approval 	
Students in English I explore the question, "Why do our stories matter?" Texts may include <i>The House on Mango Street</i> , <i>A Midsummer Night's Dream</i> , <i>Animal Farm</i> , <i>All American Boys</i> , <i>The Hate You Give</i> , <i>The Boy Who</i>	

Harnessed the Wind, 1984, Oedipus Rex, A Long Way Gone, Greek mythology, short stories, poetry and nonfiction pieces. Students write multi-paragraph literary and argument essays, creative and narrative pieces. Vocabulary and grammar are taught to improve students' writing and reading skills as well as prepare them to pass MCAS in Grade 10.

Grouping: Advanced college prep and college prep students will be grouped together but graded by level.

ENGLISH II	5 Credits
1201 / Honors <ul style="list-style-type: none"> Prerequisite: Successful completion of English I honors or teacher approval 1202 / Advanced College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of English I and/or teacher approval. 1203 / College Prep	
<p>Students in English II explore the question, "What does it mean to be human?" Texts may include excerpts from <i>To Kill a Mockingbird, A Lesson Before Dying, Lord of the Flies, Macbeth, Fahrenheit 451, Frankenstein</i>, short stories, poetry, and nonfiction pieces. Students write multi-paragraph literary and argument essays, creative and narrative pieces, and present a persuasive project. Grammar and vocabulary are stressed to prepare students to pass MCAS as well as prepare for the SAT junior year.</p>	

ENGLISH III	5 Credits
1302 / Advanced College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of English II ACP and/ or teacher approval 1303 / College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of English II CP and/ or teacher approval 	
<p>Students in English III explore the essential question, "What does it mean to be an individual in a diverse America?" Texts may include <i>The Crucible, The Scarlet Letter, The Great Gatsby, Being Henry David, Sing, Unburied, Sing</i>, as well as pieces on Puritanism, Transcendentalism, poetry, and non-fiction pieces. In addition, students study diverse perspectives through a number of different texts. Students are expected to develop critical reading, thinking, and writing skills. Creative approaches to writing about literature is part of the curriculum. Expository essays will culminate with writing a literary research paper. Vocabulary and grammar review are geared toward preparing students for SAT and ACT exams..</p>	

1301 AP ADVANCED PLACEMENT LANGUAGE AND COMPOSITION	5 Credits
Advanced Placement Grade 11 or Grade 12	
<p><i>Prerequisite: Successful completion of English III honors, AP English Literature, or teacher approval</i></p> <p>This college-level course provides an analytical study of nonfiction, literature, and language within a comprehensive program of reading, writing, and critical thinking. The curriculum is composed of challenging works of recognized literary merit that will help students understand the effective use of rhetoric as well as organize their ideas in a clear, coherent, and persuasive manner. Rhetorical analysis, argument, and synthesis essays are central to the course. Texts may include <i>Just Mercy, Educated</i>, poetry, nonfiction pieces and other literature from <i>The Language of Composition</i> anthology. Timed essays and multiple choice practices will prepare students for the AP English Language and Composition exam in May.</p>	

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

1401 AP ADVANCED PLACEMENT LITERATURE AND COMPOSITION	5 Credits
Advanced Placement Grade 11 or 12	
<p><i>Prerequisites: Successful completion of English III honors, AP English Language, or teacher approval</i></p> <p>AP English Literature and Composition represents a rigorous challenge through the exploration of literature that probes the very essence of human existence. Students are introduced to various literary genres from around the world, including an intense study of poetry. Major texts may include <i>Their Eyes Were Watching God</i>, <i>Tess of the D'Urbervilles</i>, <i>Hamlet</i>, <i>Crime and Punishment</i>, <i>Rosencrantz and Guildenstern Are Dead</i>, <i>As You Like It</i>, <i>Heart of Darkness</i>, <i>Things Fall Apart</i>, <i>Waiting for Godot</i>, and <i>The Joy Luck Club</i>.</p> <p>Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.</p>	

SENIOR ENGLISH

Seniors must choose **either** two, semester-long Senior English Choices **or** 1 year-long Advanced Placement English course (*AP Literature and Composition* or *AP Language and Composition*).

1401 AP ADVANCED PLACEMENT LITERATURE AND COMPOSITION	5 Credits
Advanced Placement Grade 11 or 12	
<p><i>Prerequisite: Successful completion of English III honors, AP English Language, or teacher approval</i></p> <p>AP English Literature and Composition represents a rigorous challenge through the exploration of literature that probes the very essence of human existence. Students are introduced to various literary genres from around the world, including an intense study of poetry. Major texts may include <i>Their Eyes Were Watching God</i>, <i>Tess of the D'Urbervilles</i>, <i>Hamlet</i>, <i>Crime and Punishment</i>, <i>Rosencrantz and Guildenstern Are Dead</i>, <i>As You Like It</i>, <i>Heart of Darkness</i>, <i>Things Fall Apart</i>, <i>Waiting for Godot</i>, and <i>The Joy Luck Club</i>.</p> <p>Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.</p>	

1301 AP ADVANCED PLACEMENT LANGUAGE AND COMPOSITION	5 Credits
Advanced Placement Grade 11 or 12	
<p><i>Prerequisite: Successful completion of English III honors, AP English Language, or teacher approval</i></p> <p>This college-level course provides an analytical study of nonfiction, literature, and language within a comprehensive program of reading, writing, and critical thinking. The curriculum is composed of challenging works of recognized literary merit that will help students understand the effective use of rhetoric as well as</p>	

organize their ideas in a clear, coherent, and persuasive manner. Rhetorical analysis, argument, and synthesis essays are central to the course. Texts may include *Just Mercy*, *Educated*, poetry, nonfiction pieces and other literature from The Language of Composition anthology. Timed essays and multiple choice practices will prepare students for the AP Language and Composition exam in May.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

ENGLISH SEMESTER CHOICES

TRADITIONAL BRITISH LITERATURE	2.5 Credits
1442 / Advanced College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of AP English Language, AP Literature, or English III 1443 / College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of AP English Language, AP Literature, or English III Grade 12	
<p>Students in British Literature explore the essential question, "How do our actions reveal our character?" This semester class explores the importance of indirect and direct characterization in British literature. Texts may include <i>Sir Gawain and the Green Knight</i>, <i>The Canterbury Tales</i>, <i>Hamlet</i>, <i>Pride and Prejudice</i>, along with selections from the anthology and pieces of satire and social criticism. By the end of the course, students should be able to demonstrate an understanding of the British literary and social movements that frame the texts, and the elements within those texts such as symbols, themes and points of view.</p>	
WOMEN'S LITERATURE	2.5 Credits
1411 / Honors <ul style="list-style-type: none"> Prerequisite: Successful completion of English III honors, AP English Literature, AP English Language, or teacher approval 1412 / Advanced College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of English III ACP or teacher approval 1413 / College Prep <ul style="list-style-type: none"> Prerequisite: Successful completion of English III CP or teacher approval Grade 12	
<p>Students in Women's Literature explore the essential question, "How do societal views affect the treatment of marginalized groups?" This semester course introduces students to representative works by and about women from historical, social, and literary perspectives. Students will learn how gender roles develop and change and how women's views of themselves are reflected in their writing. Students read, as a class, <i>The Handmaid's Tale</i>, and based on interest and level, student choice texts may include; <i>Pride and Prejudice</i>; <i>The River Runs Salt</i>, <i>The River Runs Sweet</i>; <i>The Bluest Eye</i>; <i>Beloved</i>; <i>Homegoing</i>; <i>Persepolis</i>; <i>A Time to Dance</i>; and <i>The Glass Castle</i> as well as poetry, short stories, memoirs, and nonfiction articles. By the end of the course, students should be able to demonstrate an understanding of the literary and social movements that frame the texts, and the elements of those texts such as symbols, themes and points of view.</p>	
THE HERO'S QUEST	2.5 Credits
1422 / Advanced College Prep	

<ul style="list-style-type: none"> ● <i>Prerequisite: Successful completion of English III ACP or teacher approval</i>
1423 / College Prep
<ul style="list-style-type: none"> ● <i>Prerequisite: Successful completion of English III CP or teacher approval</i>
Grade 12
<p>Students in The Hero's Quest explore the essential question, "In what ways do individual actions affect society?" This semester course will explore the archetype of the hero and their quest. Examining the concept of the hero and the metaphor of the journey, students will explore how a character's strength, knowledge, bravery, courage, fear, relationships and other elements of the hero enables the hero's fulfillment of the quest and journey. Students read, as a class, <i>Beowulf</i>, and based on interest and level, student choice texts may include: <i>Unbroken</i>, <i>A Man Called Ove</i>, <i>The Last Kingdom</i>, <i>Ready Player One</i>, and <i>The Things They Carried</i>. By the end of the course, students should be able to demonstrate an understanding of the hero's journey that frames the texts, and the elements of those texts such as symbols, themes and points of view.</p>

UNDERSTANDING CULTURE THROUGH GLOBAL LITERATURE	2.5 Credits
1461 / Honors	
<ul style="list-style-type: none"> ● <i>Prerequisite: Successful completion of English III honors, AP English Literature, AP English Language, or teacher approval</i> 	
1462 / Advanced College Prep	
<ul style="list-style-type: none"> ● <i>Prerequisite: Successful completion of English III ACP or teacher approval</i> 	
1463 / College Prep	
<ul style="list-style-type: none"> ● <i>Prerequisite: Successful completion of English III CP or teacher approval</i> 	
Grade 12	
<p>Students in Understanding Culture through Global Literature explore the essential question, "How are human experiences universal?" This semester course provides students with an opportunity to read and experience the literature of diverse races and cultures, and perspectives. Students will compare cultural and historical literature from a variety of countries. Students, read a class, <i>Night</i> and based on interest and level, student choice texts may include: <i>A Long Way Gone</i>, <i>First They Killed My Father</i>, <i>One Hundred Years of Solitude</i>, <i>A Thousand Splendid Suns</i>, <i>Kaffir Boy</i>, <i>The Kite Runner</i>, and <i>The River Runs Salt, Runs Sweet</i> as well as poetry, short stories, and personal narratives. By the end of the course, students should be able to demonstrate an understanding of cultural and personal identity and voice along with issues of power, prejudice, race, class, culture, immigration and family. .</p>	

GENERAL ENGLISH ELECTIVES

The following general electives **do not fulfill** the English Department graduation requirements.

CREATIVE WRITING	2.5 Credits/Semester Course
1512 Advanced College Prep	
1513 College prep	
Grades 11-12	
<p>This course is structured as a workshop for students interested in creative writing and learning more about different styles of writing. Students must be self-motivated to write. Students will work through multiple writing</p>	

units including: short stories, poetry, journalism, nonfiction, and narrative writing. Part of the workshop is sharing work in a collaborative setting.

FILM STUDY	2.5 Credits/Semester Course
1502 Advanced College Prep 1503 College prep Grade 12	
<p>In this course, students will view and study a variety of award-winning films in three categories: Human Growth and Reflection, Historical Non-Fiction, and Human Ignorance & Triumph through Film. Students will discuss the films as well as write in various genres including journals and critical essays. Elements of basic film are taught and discussed.</p>	

FAMILY & CONSUMER SCIENCE

Philosophy

The Family and Consumer Science Department offers courses that help students build practical life skills. Each course emphasizes decision making, management of resources, problem solving and critical thinking techniques. Students who successfully complete courses in the Family and Consumer Science Department will be prepared to pursue college studies in early childhood education, culinary arts and restaurant management, fashion design, technology and merchandising; and social service fields.

FOODS AND NUTRITION	2.5 Credits/Semester Course
8156 / Advanced College Prep Grades 9-12	
<p>Introduction to Foods and Nutrition emphasizes the fundamental areas of nutrition and basic food preparation. Students will broaden their understanding of the impact of food on their lives, including the link between diet and health. Throughout the course, students will gain confidence in their basic preparation and artistic presentation of food. Students will also practice valuable consumer skills, including comparison shopping, the understanding of nutrition information on food labels and the basic principles of food safety. This course is a requirement for most culinary courses.</p> <p>Text: Largen and Bence, <u>Guide to Good Food</u>.</p>	

SPORTS NUTRITION	2.5 Credits/Semester Course
8115 / Advanced College Prep Grades 9-12	
<p>Sports Nutrition is a course in which students will be introduced to the foundations of nutrition science, with special focus on areas relevant to high school students and student athletes. Nutrition for athletes and links</p>	

between nutrition and health will be emphasized. Students will consider the role of dietary supplements and the dangers of anabolic steroids as well as other performance enhancing drugs. Central to the course will be a discussion and exploration of current events and controversies as they relate to sports nutrition. Students will practice converting unhealthy recipes to healthier ones. Note: Students will not cook in this class.

Text: West, Nutrition, Food, and Fitness.

INTERNATIONAL FOODS

2.5 Credits/Semester Course

8235 / Advanced College Prep Grades 9-12

Prerequisite: Foods and Nutrition

In International Foods, students will research, plan, prepare and evaluate a variety of international foods. Students will uncover the similarities and appreciate the differences between foods from different regions of the world. Students will explore the geographic, cultural and historical roots of foods in particular regions. Travel around the world in ninety days and experience the culture and cuisine of the various countries.

Text: Wiley, Professional Cooking.

FUNDAMENTALS OF BAKING

2.5 Credits/Semester Course

8254 / Advanced College Prep Grades 10-12

Prerequisite: Foods and Nutrition

This course will provide students with an introduction to basic baking terminology, commonly used ingredients and effective methods. Students will discuss techniques in each class session and apply them to the actual production of baked items including: yeast breads, cookies, Danish dough, quick breads, pate choux, tarts, and pies. Students will analyze the components of baked goods and will learn how to evaluate the finished product. Additionally, students will demonstrate proper sanitation and safety techniques in the bakery.

Text: Glissen & Wiley, Professional Baking.

CULINARY ARTS I

5 Credits/Semester Course

8212 / Advanced College Prep Grades 11-12

Prerequisite: Foods and Nutrition

Culinary Arts I will offer the motivated culinary student the opportunity to learn and practice advanced food preparation techniques and develop effective time and money management skills. Students will learn to conduct a nutritional analysis, and experiment with quality control and food product marketing skills. Students will plan and prepare food products for their small business: Sparty's Cafe. **This class meets in a double block during the first semester.** Students wishing to continue in Culinary Arts may register for Culinary Arts II.

Text: Glissen & Wiley, Professional Baking.
Glissen & Wiley, Professional Cooking.

CULINARY ARTS II	5 Credits/Semester Course
8222 / Advanced College Prep Grades 11-12	
<i>Prerequisite: Foods and Nutrition</i> Culinary Arts II is the continuation of Culinary Arts I and will offer the motivated culinary student the opportunity to learn and practice advanced food preparation techniques and develop effective time and money management skills. Students will learn to conduct a nutritional analysis, and experiment with quality control and food product marketing skills. Students will plan and prepare food products for their small business: Sparty's Cafe. This class meets in a double block during the second semester. Text: Glissen & Wiley, <u>Professional Baking.</u> Glissen & Wiley, <u>Professional Cooking.</u>	

ADULT SKILLS	2.5 Credits/Semester Course
8275 / Advanced College Prep Grades 11 - 12	
This interdisciplinary course will allow students to learn about, discuss and practice the key, practical skills needed to survive in the real world. Students will learn kitchen safety, how to compose a professional email, apply for a job, basic car maintenance, laundry skills and how to plan a budget. This course, designed for students at all academic levels, will provide hands-on opportunities for students to master skills crucial to success after high school.	

CHILD DEVELOPMENT I	2.5 Credits/Semester Course
8312 / Advanced College Prep Grades 9-12	
This course will focus on the basic principles of child development, the role of families and the early growth and development of children. Students will be introduced to prenatal development, the characteristics of newborns and infants. Students will explore the physical, social and emotional development of newborns and infants. This course will incorporate a hands-on approach using RealCare Baby to simulate the care of an infant and to learn about issues in infant care. Guest speakers will be invited frequently to discuss areas of parenting and current parenting issues. This course is a prerequisite for both Child Development II and Early Childhood Studies. Text: Brisbane, <u>The Developing Child.</u>	

CHILD DEVELOPMENT II	2.5 Credits/Semester Course
8412 / Advanced College Prep Grades 9-12	
<i>Prerequisite: Child Development I</i>	

This course builds upon the basic principles of child development examined in Child Development I and focuses on the growth and development of toddlers and preschoolers. It will allow students to explore the physical, social, emotional, and intellectual growth of toddlers and preschoolers. Guest speakers and their children will visit often to share their experiences raising and caring for young children.

Text: Herr, Working with Young Children.

EARLY CHILDHOOD STUDIES

5 Credits/Semester Course

8432 / Advanced College Prep Grades 11-12

Prerequisite: Child Development II

Through on-site work with young elementary students, participants in this course will learn first-hand about teaching and interacting with preschool, kindergarten and first grade children. The students will participate in planning and implementing classroom activities for children through internships in local schools. The students will work closely with a cooperating teacher as well as the high school Child Development teacher to learn how to successfully implement plans in the classroom. This is a valuable opportunity for high school students to explore career possibilities in early childhood education. This course may be taken for the first semester only, or for both semesters. Only students who take the course during the first semester will be permitted to enroll for the second semester. **Early Childhood Studies will meet in a double block in order to facilitate working in the local elementary and preschool classrooms.**

FASHION AND CONSTRUCTION

2.5 Credits/Semester Course

8505 / Advanced College Prep Grades 9-12

This course is an introduction to fashion, with a focus on clothing construction and design. Students will learn to use sewing equipment and tools, practice hand and machine sewing techniques. Students will also consider the elements of pattern selection and fit, and color theory. After students construct an introductory project, they will complete one and items of their choice to finish the semester. Students will work in the classroom to develop the skills needed to construct garments, accessories or home décor projects. The course will also touch on careers in the field and the class may also participate in a community service project. *Students will be responsible for providing their own course fabric and materials for projects.*

ADVANCED FASHION CONSTRUCTION AND DESIGN

2.5 Credits/Semester Course

8515 / Advanced College Prep Grades 9-12

Prerequisite: Fashion and Construction class and recommendation by Fashion and Construction Teacher

This course is a continuation of the Fashion and Design class and is geared toward students interested in improving their skills. Students in this course will be able to pursue their interests in construction and design, building on the skills they have previously learned. Students will work with more difficult fabrics and patterns, experiment with basic design and pattern making techniques, and learn how to alter existing patterns to create unique garments or interior design projects. *Students will be responsible for providing their own course fabric and materials for projects. This course may be repeated with permission of the instructor.*

FINE AND PERFORMING ARTS

Graduation Requirement - 5 credits in art and/or music classes

Philosophy

Stoneham High School recognizes that the arts are a vital component of 21st century learning. The arts prepare our students with the skill set they will need to become successful, well-rounded thinkers. Our philosophy is aligned with the Massachusetts state standards which center around the principles of Creating, Presenting, Responding and Connecting. We offer a program of rigorous, relevant courses that support social and emotional growth, promote family and community engagement, are inclusive, make connections across disciplines, represent diverse cultures, and foster artistic literacy. Strong Arts = Strong Schools = Strong Towns.

Fine and Performing Arts

Grade 9	Grade 10	Grade 11	Grade 12
Fine Arts			
Art 1** Mixed Media Collage Crafts Design Ceramics 1 Sculpture Photography Experimental Photo * Art 1 is a prerequisite for all of the Fine Arts courses for the class of 2027. **Check prerequisites for advanced courses.	Art I Art II** Art III** Mixed Media Collage Crafts Design Ceramics 1 Advanced Ceramics** Sculpture Advanced 3D Art** Photography Advanced Photo** Experimental Photo	Art I Art II** Art III** Studio Art** AP Studio Art** Mixed Media Collage Crafts Design Ceramics 1 Advanced Ceramics** Sculpture Advanced 3D Art** Digital Design Photography Advanced Photo** Experimental Photo	Art I Art II** Art III** Studio Art** AP Studio Art** Mixed Media Collage Crafts Design Ceramics 1 Advanced Ceramics** Sculpture Advanced 3D Art** Digital Design Photography Advanced Photo** Experimental Photo
Performing Arts			
Spartan Chorale Spartan Band Jazz Ensemble Theater Arts Music Appreciation 20th Cent. Pop Music	Spartan Chorale Spartan Band Jazz Ensemble Theater Arts Music Appreciation 20th Cent. Pop Music	Spartan Chorale Spartan Band Jazz Ensemble Theater Arts Music Appreciation 20th Cent. Pop Music	Spartan Chorale Spartan Band Jazz Ensemble Theater Arts Music Appreciation 20th Cent. Pop Music

9110 ART 1	2.5 Credits/Semester Course
Advanced College Prep Grades 9-12	
<p>This foundation course in Fine Arts will introduce students to the basic language of art through studio experiences in painting, drawing, collage, sculpture and graphic design. The study and discussion of significant works of art will be incorporated. Student work is displayed throughout the school during the year and returned to students at the conclusion of the year.</p>	

9111 ART 2	2.5 Credits/Semester Course
Advanced College Prep Grades 10 – 12	
<p><i>Prerequisite: Art 1</i></p> <p>This course is designed for highly motivated art students who wish to improve their skills and technique through an in-depth exploration of drawing, printmaking and painting. This course serves as a bridge between Art 1 and the more advanced art courses, such as Studio Art.</p>	

9112 ART 3	2.5 Credits/Semester Course
Advanced College Prep Grades 10 - 12	
<p><i>Prerequisite: Art 2 and teacher recommendation</i></p> <p>Art III is for students wishing to continue with the sequential art electives, and serves as a bridge between the basic art classes and our portfolio (Studio) class. This course offers a concentrated study in areas selected by the student, with the goal of students becoming more self-directed in their art-making processes. Students will continue to develop their skills in art-making and creative problem solving, and further expand their knowledge of current and historical works of art. This class is also ideal for those students who may not be able to fit the Studio class in their schedule, but would still like to build a portfolio for college.</p>	

STUDIO ART	5 Credits
9100 / Honors 9102 / Advanced College Prep Grades 11-12	
<p><i>Prerequisite: Art 1 and recommendation of current art teacher and the Studio Art instructor. Part of the selection process will be analyzing 6-12 pieces of the student's best art work.</i></p> <p>This course is designed for the highly motivated art student, including those who may be planning a career in art. Course content includes advanced drawing, painting, sculpture, design, and printmaking. Individual research in art history and appreciation will be included. This course may be repeated with the approval of the instructor.</p>	

9100 AP ADVANCED PLACEMENT STUDIO ART	5 Credits
Advanced Placement Grades 11-12	
<p><i>Prerequisite: Art 1 and the recommendation of their current art teacher and the Studio Art instructor. Part of the selection process will be analyzing 6-12 pieces of the student's best art work.</i></p> <p>This course is designed for the highly motivated art student, including those who may be planning a career in art. Course content includes advanced drawing, painting, sculpture, design, and printmaking. Individual research in art history and appreciation will be included. This course may be repeated with the approval of the instructor.</p> <p>Student Fee: Students taking this AP course are expected to complete the Advanced Placement portfolio in May. The cost of each AP test is determined and published by the College Board.</p>	
9113 MIXED MEDIA/COLLAGÉ	2.5 Credits/Semester Course
Advanced College Prep Grades 9 – 12	
<p><i>Prerequisite: Art 1</i></p> <p>This course introduces students to a variety of collage/assemblage techniques. Students will experiment with a range of materials and processes to create both 2-dimensional and 3-dimensional work. This course will also explore the work of mixed media artists and will incorporate these ideas and techniques into their own artwork.</p>	
9114 CRAFTS DESIGN	2.5 Credits/Semester Course
Advanced College Prep Grades 9-12	
<p><i>Prerequisite: Art 1</i></p> <p>This course focuses on the utilitarian designs of both the traditional and contemporary crafts world. Students will design and produce finely crafted works such as a hand -bound book, block and rubber stamp prints, stencils, soft sculptures and collage/assemblage works.</p>	
9115 CERAMICS 1	2.5 Credits/Semester Course
Advanced College Prep Grades 9 – 12	
<p><i>Prerequisite: Art 1</i></p> <p>Ceramics and pottery will be taught. This will include experiences with various clay bodies, glazing, and various building techniques including raising a bowl on the electric wheel. This is a semester course that may be repeated with the permission of the instructor.</p>	
9116 ADVANCED CERAMICS	2.5 Credits/Semester Course

Advanced College Prep**Grades 10 - 12**

Prerequisite: Ceramics 1

Students who wish to take Advanced Ceramics should be proficient in the basics of hand-building and/or wheel-throwing, refining, and glazing. The course will focus on advanced techniques in building, firing, and finishing. Students will be encouraged to develop a personal direction or “voice” as they progress through the semester, and will be expected to produce high-quality and thoughtful pieces.

This course is recommended for students who have excelled in Ceramics. Students who take this course should have a high level of motivation, diligence, commitment, and independence.

9117 SCULPTURE**2.5 Credits/Semester Course****Advanced College Prep****Grades 9 – 12**

Prerequisite: Art 1

Using a wide variety of materials, the three-dimension process of additive, subtractive and casting methods will be covered. The appreciation and study of the history of sculpture will also be included.

9118 ADVANCED 3D ART**2.5 Credits/Semester Course****Advanced College Prep****Grades 10 – 12**

Prerequisite: Ceramics or Sculpture and teacher approval

This course is designed for advanced art students who wish to continue their exploration of three-dimensional or ceramic materials. Students will create works that are varied and complex. This is a semester course that may be repeated with the permission of the instructor.

9119 DIGITAL DESIGN with Photoshop**2.5 Credits/Semester Course****Advanced College Prep****Grades 11-12**

Prerequisite: Art 1

This course introduces basic to intermediate Photoshop techniques. Students will learn how to generate, manipulate, and print images using Adobe Photoshop software. Basic to intermediate computer skills are required.

Access to a digital camera is strongly recommended.

9120 PHOTOGRAPHY**2.5 Credits/Semester Course****Advanced College Prep**

Grades 9-12

Prerequisite: Art 1

This is a course in basic black and white photography. Students will be introduced to all aspects of the photographic process including developing film and printing enlargements from negatives. The course will also address a brief history of photography as well as discussions about contemporary photographers. Students will spend time writing about their own photographs as they complete projects.

A 35mm manual camera is required for this course. The school does have limited cameras available for students who do not have one.

9121 ADVANCED PHOTOGRAPHY**2.5 Credits/Semester Course**

**Advanced College Prep
Grades 10-12**

Prerequisite: Photography and teacher approval

This is a continuation of Photography. Concepts of lighting, framing, composition, depth of field and subject matter will be presented. The work of famous photographers and photo movements will be discussed as well as their role in the history of photography. Students will produce work based on a series of assignments and will create a body of work based on individual themes. Students will learn how to critique their work in order to improve techniques.

A 35mm manual camera is required for this course. The school does have limited cameras available for students who do not have one.

9122 EXPERIMENTAL PHOTOGRAPHY**2.5 Credits/Semester Course**

**Advanced College Prep
Grades 9 – 12**

Prerequisite: Art 1

This course will explore a variety of alternative and experimental processes and will discuss how they were developed throughout history. Students will learn techniques for making cameras, altering photographs and experimenting with photos and negatives in the darkroom. Students will also have the opportunity to shoot with alternative cameras in class. A 35 mm camera is not required for this course but can be used.

SPARTAN CHORALE**5 Credits**

**9201 / Honors
9200 / Advanced College Prep
Grades 9-12**

Spartan Chorale is a comprehensive choral experience encompassing singing, sight reading, ear training, creative expression, conducting and performance. Choral works of every style and period will be studied and performed. Opportunities for participation in the school musical, District and All -State Chorus, and concerts both in Stoneham and out of town will be provided. Participation is required in several evening performances each semester. Regular assignments supplement class work. This course may be repeated.

SPARTAN BAND	5 Credits
9300H / Honors 9300 / Advanced College Prep Grades 9-12	
<p>Open to all qualified musicians who play band instruments. Opportunities to study literature are provided. Through rehearsals and public appearances, the student will come to view music from the perspective of the performer. Technical skills and sight-reading will be stressed. Students will be required to participate in all concerts and performances. Homework will be assigned consistent with the policy of the Stoneham Public Schools. It is recommended that all students in Spartan Band take private lessons on their instruments. Students will select a level of instruction (HON, INT, COMP) within the first three weeks of the course. There are special requirements to earn Honors credit in the band. This course may be repeated.</p>	

JAZZ ENSEMBLE	5 Credits
9322 / Honors 9323 / Advanced College Prep Grades 9-12	
<p><i>Prerequisite: Teacher Approval</i></p> <p>Jazz Ensemble is open to musically qualified instrumentalists (students in band or with equivalent experience). The course focuses on performance styles in the jazz idiom including swing, jazz-rock fusion, Latin and ballad. Periods of jazz history are explored through listening. There is an emphasis on developing skills in improvisation. Jazz Ensemble members perform at school concerts or events outside of school.</p>	

9123 THEATER ARTS	2.5 Credits/Semester Course
Advanced College Prep Grades 9 – 12	
<p>This workshop course will enable students to develop acting skills through the study of improvisation, stage movement and character development. Students will work on voice production, diction, script analysis and directing, using monologues and short scripted and unscripted scenes. This course may be repeated for more in-depth study and development. This is a semester course that may be repeated with the permission of the instructor.</p>	

9124 MUSIC APPRECIATION	2.5 Credits/Semester Course
Advanced College Prep Grades 9 – 12	
<p>This is a music history class with an emphasis on listening. Masterpieces of music from medieval to modern periods will be discussed, including styles, types and composers including jazz, blues, and rock styles. Students will gain an understanding of musical elements such as melody, harmony, rhythm, meter and form. There will possibly be field trips to such places as Symphony Hall, Jordan Hall, and the Berklee Performance Center. This is not a performance class.</p>	

9125 TWENTIETH CENTURY POPULAR MUSIC	2.5 Credits/Semester Course
Advanced College Prep Grades 9 – 12	
<p>This is a music history survey course with an emphasis on critical listening and analysis skills. The course will trace the roots and development of contemporary popular music by dissecting the popular forms of the past. Stylistic periods that we will work with include the Parlor songs and Ragtime music of the turn of the 20th century, the influence of the American musical theater on popular songs, the Swing Era, the development of Rock 'n Roll after World War II, and the rise of urban styles including disco, rap, and rhythm and blues. These stylistic periods will be linked to the historical trends, technological advances, and major events that formed them as well as the innovators, songwriters, and star performers who made the music famous. Opportunities for creating music in the representative styles will be explored.</p>	

HEALTH EDUCATION

Graduation Requirement - 2.5 Credits

Philosophy

The Health Education courses offered at SHS are designed to provide students with the necessary factual knowledge, skills and strategies that will allow them to make informed decisions, and to demonstrate responsible and respectful behavior towards themselves and others. The evidence-based curriculum promotes healthy decision-making, provides current, relevant data and teaches the personal skills that enable students to confront the many social, physical and emotional challenges that occur throughout their adolescent years and also their lifetime.

The curriculum addresses issues of adolescent development including: nutrition, body image, fitness and exercise, human sexuality, substance use, addiction, healthy and unhealthy relationships and social/emotional issues. Interwoven into the curriculum are skill-based strategies including problem solving, communication techniques, conflict resolution, refusal skills and decision-making models.

The Stoneham High School Health Education course content is supported by data from the Stoneham, Middlesex League and the Massachusetts Youth Risk Behavior Surveys and adheres to the National Health Education Standards and the Massachusetts Health Curriculum Frameworks. This course is part of a comprehensive 5-12 health education curriculum. Health education is mandated by state law and is a requirement for graduation.

All Physical Education, Health and Wellness courses are taught at the College Preparatory designation

5855 HEALTH EDUCATION	2.5 Credits/Semester Course
Grade 10	
<p>This discussion based course covers a variety of adolescent health issues including nutrition, body image, fitness and exercise, human sexuality, addiction, healthy and unhealthy relationships and social/emotional issues. The focus of the course is to promote healthy decision-making. A variety of current information sources are used</p>	

during the course including guest speakers. This course is required for graduation and it is recommended that it be taken during the sophomore year. Student portfolios are a course requirement.

5534 CURRENT HEALTH ISSUES	2.5 Credits/Semester Course
Grades 11 – 12	
<i>Prerequisite: Health Education</i> This course is an expansion of the tenth grade health curriculum. The focus of this course is to encourage students to develop healthy habits that will lead to a future healthy lifestyle. This discussion-based course will deal with current health issues and their impact on society. It will also include visiting speakers. Some of the topics will include: body image, human sexuality, addiction, media analysis, safety, community health, and healthy relationships. This course will be helpful to students as they move beyond high school. This course does not fulfill the Health Education graduation requirement.	

5544 HEALTH CAREERS	2.5 Credits/Semester Course
Grades 10 – 12	
<i>Prerequisite: Health Education</i> This course is designed to provide students with the opportunity to explore a variety of careers with an emphasis on health and biomedical employment options. Local health care professionals will be invited as guest speakers to the class to provide their perspective and discuss their careers. This course does not fulfill the Health Education graduation requirement.	

5845 HEALTHY CHOICES	2.5 credits/Semester Course
Grade 9	
The semester course is to empower students to develop and requisite knowledge, skills and attitude so that they may develop and maintain lifelong health and wellness and resist social influences. Lessons that address communication , assertiveness, decision-making, risk reduction, problem solving and goal setting will develop social emotional skills while empowering students to make informed decisions and lower risk choices. Students will work to develop their personal and interpersonal skills to help them resist the negative pressures and youth risk behaviors. This course does not fulfill the Health Education graduation requirement.	

5755 PEER LEADERSHIP	5 Credits
Unleveled Grades 11-12	
<i>Prerequisite: There is an application and selection procedure for this course. To be considered for admission, a student must fill out an application, which includes three teacher references. A personal interview is also required. A selection committee carefully reviews the applications. A maximum of 30 students is selected.</i> Once selected, the students in this class will be trained by the Anti-Defamation League's a WORLD OF DIFFERENCE peer trainers. The training will provide students with the skills and resources necessary to design and lead interactive workshops for their peers and other students. The role of a student in the Peer Leadership class is	

to create and run anti-bias educational workshops for their peers and to be role models for civility and respect. Students must have the willingness to take a stand against prejudice and be willing to make a commitment to creating a positive social atmosphere at Stoneham High School. Each student will be responsible for participating in several school - based projects throughout the year. **This course does not fulfill the Health Education graduation requirement.**

HISTORY AND SOCIAL SCIENCES

Graduation Requirements - 15 Credits

Philosophy

In history and social sciences students do the work of historians, social scientists, sociologists, lawyers, economists, and entrepreneurs. They analyze, investigate, classify, compare, hypothesize, question, create, and debate. Our courses seek to provide students with knowledge and skills to help them become thoughtful participants in a democratic society and in an increasingly complex world. We offer experiences, both in and out of the classroom, to help students to understand local, state, national, and international issues, to respectfully discuss complex and controversial issues and ideas with people of different views, to speak and write with clarity and conviction, and to take principled, informed action where appropriate.

Course offerings per grade level 2023-2024

Required Courses (all Full Year)			
Grade 9	Grade 10	Grade 11	Grade 12
USI Honors	AP USH	AP World History	
USI ACP	US II ACP	Mod World History ACP	
USI CP	US II CP	Mod World CP	
Elective Courses			
Grade 9	Grade 10	Grade 11	Grade 12

Semester Courses:	Semester Courses:	Semester Courses:	Semester Courses:
<ul style="list-style-type: none"> • Money 101 	<ul style="list-style-type: none"> • Money 101 • Int. Relations • Street Law 	<ul style="list-style-type: none"> • Int Relations • Business 101 • Contemporary Issues • Facing History • Street Law • Advanced History Research • HSS Internship <p>Full Year Courses:</p> <ul style="list-style-type: none"> • AP Psychology • AP Government and Politics • Psychology • Economics 	<ul style="list-style-type: none"> • Int Relations • Business 101 • Contemporary Issues • Facing History • Street Law • Advanced History Research • HSS Internship <p>Full Year Courses</p> <ul style="list-style-type: none"> • AP Psychology • AP Government and Politics • AP Economics • Psychology • Economics

UNITED STATES HISTORY I	5 Credits
REQUIRED FOR ALL GRADE 9 STUDENTS 2602 / Advanced College Prep 2603 / College Prep Grade 9	
<p>Students begin their study of United States history at Stoneham High School with a review of Constitutional principles and events of the early Republic. They examine the causes and consequences of the Civil War, industrialization, immigration, America's entry into World War I and its impact on the United States, and the early 20th century quest for social justice for all citizens. This course will help students build research, critical reading, and analytical writing skills. As part of the course work, students may be required to participate in National History Day.</p> <p>Text: Prentice Hall, <u>America: Pathways to the Present.</u></p>	

2601 UNITED STATES HISTORY I HONORS	5 Credits
Honors Grade 9	

*Prerequisite: minimum grade of A- in Civics **and** recommendation of the grade 8 teacher.*

At the honors level, US I serves as the first year of the Advanced Placement United States History curriculum. This course covers the period from the exploration and colonization of the Americas through Reconstruction and focuses on strengthening a student's critical reading, argument writing, and analytical skills. This rigorous course will equip students with the skills necessary for success in Advanced Placement United States History grade 10. Given the intensive focus on writing, students who elect US I Honors are encouraged to also take English at the honors level.

Text: McDougall Littell, The American Pageant AP Edition

UNITED STATES HISTORY II

5 Credits

REQUIRED FOR ALL GRADE 10 STUDENTS

2702 / Advanced College Prep

2703 / College Prep

Grades 10

This course will explore the history of the United States from the end of World War I through the present day. Students will continue their study of United States history by examining the Great Depression and the New Deal, World War II, the Cold War, the Civil Rights Movement and the cultural upheaval of the 60's and 70's, the conflict in Southeast Asia, the spread of globalization, conflict in the Middle East and terrorism in the 21st century. Special attention will be paid to understanding current events and building research, critical reading, writing and media literacy skills. As part of the course work, all students will participate in a non partisan, student led, Civic Action Project.

Text: Prentice Hall, America: Pathways to the Present.

2311 AP ADVANCED PLACEMENT UNITED STATES HISTORY

5 Credits

Advanced Placement

Grade 10

Prerequisite: Successful completion of US I Honors or teacher approval

This course completes the study of U.S. History begun in grade 9. Emphasis will be placed on the major trends of U.S. domestic and foreign policy in the 20th century. Events and issues to be highlighted will include: the Spanish American War, WWI, the Roaring Twenties, WW II, the Cold War, the Civil Rights Movement, Vietnam, Watergate, Reaganomics, globalization, conflict in the Middle East and terrorism in the 21st century. Students will hone their skills in historical research and interpretation and analysis of primary source documents. As part of the course work, all students will participate in a non partisan, student led, Civic Action Project. Students may be assigned summer reading.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Text: McDougall Littell, The American Pageant AP Edition.

MODERN WORLD HISTORY

5 Credits

REQUIRED FOR ALL GRADE 11 STUDENTS
2906 / Advanced College Prep
2907 / College Prep
Grades 11

In Modern World History, students study key moments in global history from approximately 1700 to the present. This course focuses on helping students understand the sweep of history by exploring the social, economic, and political forces that have shaped the contemporary world. Topics include the rise of nation-states, the consequences of industrialization, patterns of mass migration, colonialism and decolonization, war and genocide in the 20th century, the Cold War period, globalization, and the rise of terrorism. Emphasis will be placed on the skills historians use to construct arguments, including analyzing primary and secondary source documents. As part of the course work, students may be required to participate in National History Day.

2905 AP ADVANCED PLACEMENT WORLD HISTORY: MODERN

5 Credits

Advanced Placement
Grades 11

Prerequisite: Successful completion of US II and teacher approval

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present by analyzing historical sources, making connections, and crafting historical arguments. They explore concepts such as humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. This course will have summer work.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Text: Perfection Learning World History: Modern (1200-Present) AP Edition

PSYCHOLOGY

5 Credits

2405 / Advanced College Prep
2406 / College Prep
Grades 11 - 12

This full year course is designed for students interested in pursuing psychology in college or for students entering health related fields. The course will give students an in-depth and expanded program to investigate the human mind, human behavior, and human experience. Emphasis is given to the methods of scientific research, the function of the human mind and brain, sensation and perception, cognitive psychology and development, stress and conflict, altered states of consciousness, and psychological disorders and treatment. A variety of demonstrations will be utilized to highlight the topics explored. Major focus will be given to the students' understanding of their own behavior and that of others.

2501 AP ADVANCED PLACEMENT PSYCHOLOGY

5 Credits

Advanced Placement
Grades 11 - 12

Prerequisite: Approval of grade 10 or 11 social studies teacher

The AP Psychology course is designed 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. This course will prepare students to take the Advanced Placement Psychology test in May.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Text: Pearson, [Psychology](#).

2100 CIVIC ACTION SEMINAR

2.5 Credits/Semester Course

**Advanced College Prep
Grades 11 - 12**

American history is full of examples of individual people and groups taking action to solve local and national challenges or to confront injustice. This course is designed to introduce students to the history of social change and civic action in the United States and to encourage them to see themselves as problem solvers and community activists. Students will explore issues and topics that matter to them, their families, and our shared communities. In groups or as a class, students will identify a focus issue for a student-led civics project and will spend time communicating with key stakeholders in the community while researching and developing an action plan aimed at developing long-term, sustainable solutions. These projects will culminate in student-led action, reflection, and a final public showcase of their work.

THIS COURSE WILL NOT RUN IN THE 2023-2024 SCHOOL YEAR.

2461AP AP U.S. GOVERNMENT AND POLITICS

5 Credits

**Advanced Placement
Grades 11 - 12**

Prerequisite: Approval of grade 10 or 11 social studies teacher

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or civic action project. This course will prepare students to take the Advanced Placement Psychology test in May.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

FACING HISTORY AND OURSELVES

2.5 Credits/Semester Course

2440 / Advanced College Prep
2446 / College Prep
Grades 11 - 12

Facing History is an elective course that uses the study of the Holocaust and other examples of genocide to engage students in an examination of racism, prejudice and anti-Semitism. Students will be able to continue the study and discussion of the Holocaust and other cases of 20th century genocide begun in World History. Course readings, discussions and films will help the students to make the essential connections between history and the choices they confront in their own lives. Students will analyze the role of the individual and the state as they uncover the political factors that allow and encourage genocide. They will examine examples of group and individual resistance and consider case studies of programs and policies designed to bring about reconciliation where genocide has occurred. Topics include the Armenian genocide, the Holocaust, the "Killing Fields" in Cambodia, Apartheid in South Africa, ethnic cleansing in the Balkans and the recent Rwandan genocide.

Text: Facing History and Ourselves, The Holocaust and Human Behavior.

CONTEMPORARY ISSUES

2.5 Credits/Semester Course

2430 / Advanced College Prep
2433 / College Prep
Grades 11 - 12

This course will allow students to investigate current issues and hot topics of the day. Students will have an opportunity to shape the course by helping to select the topics for study. Techniques include small group investigation, class discussion and debate, and field research. This course will help students refine their critical thinking, writing, speaking, and presentation skills.

INTRODUCTION TO INTERNATIONAL RELATIONS

2.5 Credits/Semester Course

2450 / Advanced College Prep
2452 / College Prep
Grades 10 - 12

This course will provide students with an overview of the development and implementation of American foreign policy since the end of the Cold War as well as a comprehensive understanding of the structure and role of the United Nations in addressing global problems. Specifically, students will examine the historical, economic, cultural and political motivations behind events unfolding in parts of the Middle East, North Africa, South Asia and the Far East. Students will grapple with the complexities of the world's challenges through U.N. simulations, debates and resolution writing.

Text: Dan Smith, The State of the World Atlas.

2705 ADVANCED HISTORY RESEARCH

2.5 Credits/Semester Course

Advanced College Prep
Grade 11-12

Prerequisite: Program Supervisor approval

This course is designed for the serious history student who is looking to undertake independently designed and self directed research. Students will be expected to develop a research proposal and to present it for review and approval. The student will work closely with the school library media specialist to navigate advanced databases and research sites. Students will be expected to produce high quality products as a result of their research time. These may include documentaries, papers for publication and for submission to contests, National History Day projects, curated exhibits in the History Learning Lab, case studies, genealogical explorations, local history articles.

MONEY 101 - INTRODUCTION TO MONEY, BUSINESS AND ECONOMICS

**2.5 Credits/
Semester Course**

2388 / Advanced College Prep
2389 / College Prep
Grade 9-10

This hands-on, introductory economics course will focus on the big ideas in money and personal finance. Some questions the course tackles are: What is money? Is the cost of college worth it? How can my profession pay me more money? How does my credit score affect how much interest paid on loans? What is a budget and how can I use it to achieve a goal? How can I invest for retirement? Students will begin to build economic and financial literacy and learn skills to earn and keep more money over their lifetimes. Students who take this course will be well prepared to take additional economics courses.

BUSINESS 101

**2.5 Credits/
Semester Course**

2380/ Advanced College Prep
2381/ College Prep
Grade 11-12

This hands-on, introductory business course is designed to show students the basics of business through the lens of a business plan. Students will use a current events and case study approach to explore entrepreneurship, production, marketing, finance, accounting, and management strategies used by businesses. Students will begin to build on their economic and financial literacy and learn to analyze contemporary problems through an economic lens.

ECONOMICS

5.0 Credits

2401/ Honors
2402/ Advanced College Prep

Grade 11-12

Economics is an introductory course in the fundamental theories of capitalism. With an understanding of the basic micro and macroeconomic principles that guide the U.S. economy, students will explore and analyze contemporary and historic economic challenges and develop solutions to those problems. Some of the major course concepts include scarcity, law of supply and demand, prices, business organizations, market structures, trade-offs and opportunity costs, entrepreneurship, GDP, unemployment, inflation, monetary and fiscal policy, economic growth, and business cycles. This course is highly recommended for anyone interested in studying economics, business, law or public policy in college.

Text: Gary Clayton, Glencoe Economics: Principles and Practices.

2400 AP ADVANCED PLACEMENT ECONOMICS

5 Credits

Advanced Placement Grade 12

Prerequisite: approval of economics teacher or program supervisor

This college-level course focuses on both the general concepts and analytical models of economics and the ways in which those concepts can be used to help individuals, groups, or nations decide how to improve their welfare. This course is structured around the AP curriculum guidelines for microeconomics and macroeconomics. The first semester will focus on microeconomic theory including the nature and function of product markets, supply and demand, factor markets and efficiency, and equity and the role of government. The second semester will focus on macroeconomics including basic economic concepts, measurement of economic performance, national income and price determination, economic growth and international finance and exchange rates. Students will be prepared to take the microeconomics and/or macroeconomics AP test at the end of this course.

***Student Fee Required:* Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.**

Text: David Anderson; Margaret Ray, Krugman's Economics for the AP Course.

HSS INTERNSHIP

2.5 Credits/
Semester Course

6915 / Advanced College Prep Grade 12

Prerequisite: Instructor or Program Supervisor approval

Want to put your history and social science skills to work in the real world and make a difference in your community? This internship is designed for the student who wants to extend and apply their study of economics, history, psychology, government, civics, or Facing History to practical work experience. Students will be expected to secure their own internship placement and should plan to spend at least 3 hours a week (the equivalent of standard class meeting) at their internship site. This course will culminate with the creation of a portfolio and a public presentation of the internship experience. In order to apply for the internship opportunity, students should have successfully completed or be enrolled concurrently in a related course.

STREET LAW

2.5 Credits/Semester Course

6455 / Advanced College Prep Grade 10-12

This course aims to develop a student's understanding of the basic legal principles common in everyday activities. The course deals with the legal foundation of our government, business, and social systems. It stresses both an individual's legal rights and benefits as well as their legal duties, obligations, responsibilities and liabilities. It includes a study of both criminal and civil law. Guest speakers may include: law enforcement officials, probation officers, landlords, lawyers, and judges.

Text: TBD

MATHEMATICS

Graduation Requirement - 20 credits

Philosophy

The Mathematics Department aims to provide students with a solid foundation consistent with the principles and practices outlined in the Massachusetts Curriculum Framework for Mathematics. Through collaborative and independent learning, students will develop and use analytic thinking, critical reasoning skills, and technology to solve problems. Students will be prepared to address complex and challenging real-world problems and succeed in postsecondary education, careers, and everyday life.

Mathematics Course Sequences

The following chart shows typical progressions between courses for each grade. Most courses have prerequisite grades - see the course descriptions for details.

grade 8	grade 9	grade 10	grade 11	grade 12
Algebra I Advanced Math	4101 Geometry (HON)	4201 Algebra II (HON)	4301 Precalculus (HON) 4311AP AP Statistics (AP) (with precalculus Only)	4401AP AP Calculus AB (AP) or 4401 Calculus (HON) or 4400 Calculus (ACP) or 4311AP AP Statistics (AP) (alone or with Calculus)
	4102 Geometry (ACP)	4202 Algebra II (ACP)	4302 Functions/Statistics/ Trigonometry (ACP)	4300 Senior Precalculus (ACP) or 4311AP AP Statistics (AP) (alone or with Precalculus)
Grade 8 Math	4103 Geometry (CP)	4203 Algebra II (CP)	4303 Functions/Statistics (CP)	4305 Introduction to Precalculus (CP) (year-long) or 4504 Financial Algebra (CP)
Transitions Math	4108 Algebra 1 (CP)	4103 Geometry (CP)s	4203 Algebra II (CP)	4303 Functions/Statistics (CP) or 4504 Financial Algebra (CP)

Graphing calculator recommendation

As graphing calculators are key everyday tools for learning mathematics, SHS strongly recommends that students at any level of Algebra II, Pre-Calculus, Statistics, Trigonometry or Calculus purchase a Texas Instruments graphing calculator from the TI-83 or TI-84 Plus family. These calculators will be used in class, on homework, on assessments such as PSATs, SATs, SAT I, SAT II, ACTs, APs, and in future math and science courses throughout high school, college, graduate school, and beyond.

The TI-83 and TI-84 Plus family of graphing calculators are the most widely used in schools. Also, having students with similar calculators enable our teachers to uniformly instruct students in using this technology. While graphing calculators are available for use in class, students are strongly encouraged to have their own. A new TI-84 Plus may be purchased at local retailers, and many online retailers may offer less expensive options. For example, used TI-83 Plus calculators can often be found online for under \$50.

For families who may not be in a position to purchase a graphing calculator, our school has a limited number of calculators available for loan. A calculator loan request form may be obtained from the Guidance Department or your student's math teacher. Upon return of the completed form, SHS will provide a calculator to be borrowed for the school year.

The Stoneham Math Department is looking forward to an engaging and exciting year of mathematics. If you have any questions about which calculator to purchase or this recommendation, please see any math teacher or email the Math Department Chair, Angela Billings, at abillings@stonehamschools.org.

4108 ALGEBRA I	5 Credits
College Prep Grade 9	
<i>Prerequisites: Successful completion of a Pre-Algebra course</i>	
<p>Students are introduced to foundational algebraic concepts necessary for more advanced mathematics. Topics covered include: solving and graphing equations and inequalities, properties of exponents and radicals, linear equations and graphs, functions, working with polynomials, and quadratics. This course incorporates an introduction to probability, data analysis, and geometry, in addition to other foundational MCAS topics. Real-world applications and thinking skills will be emphasized. Completion of this course will provide a foundation for further study in mathematics and for passing the MCAS test.</p>	
It is recommended that the students have their own scientific calculator for this course.	
Text: Charles, Randall et al. Pearson, <u>Algebra I: Common Core</u> .	

4101 HONORS GEOMETRY	5 Credits
Honors Grade 9	
<ul style="list-style-type: none"> <i>Prerequisite: Successful completion of Algebra I Advanced or teacher approval</i> 	
<p>This course is offered for those students who continue to show high aptitude, interest, and achievement in mathematics. There will be deeper treatment and extension of the topics and concepts of geometry, such as methods of proof, working with parallel and perpendicular lines and polygons, understanding congruence and similarity, coordinate geometry, and circles. Measurement skills are taught along with finding the perimeter, circumference, various types of area, and volume of figures. Real-world applications are incorporated throughout</p>	

the course, along with practice in using algebra, data analysis, and probability. These are integrated into this course in anticipation of the MCAS.

It is recommended that students have their own scientific calculator for this course.

Text: Jurgensen, Ray et al, Geometry.

4102 GEOMETRY	5 Credits
Advanced College Prep Grades 9-10	
<i>Prerequisites: Successful completion Algebra I.</i>	
<p>Students will develop reasoning and problem-solving skills as they study topics such as congruence and similarity, methods of proof, coordinate geometry, transformations, and applying properties of lines, triangles, quadrilaterals, circles and solids. Problem-solving skills will also be enhanced by using length, perimeter, area, circumference and volume to solve real-world problems. Algebra, data analysis, and probability are integrated into this course in anticipation of the MCAS.</p>	
It is recommended that students have their own scientific calculator for this course.	
Text: Larson, Ron et al., <u>Geometry: Common Core</u> .	

4103 GEOMETRY	5 Credits
College Prep Grades 9-10	
<i>Prerequisite: Successful completion of Algebra I.</i>	
<p>Students will develop reasoning and problem-solving skills as they study topics such as congruence and similarity, coordinate geometry, transformations, and applying properties of lines, triangles, quadrilaterals, circles and solids. Problem-solving skills will also be enhanced by using length, perimeter, area, circumference and volume to solve real-world problems. Algebra, data analysis, and probability are integrated into this course in anticipation of the MCAS.</p>	
It is recommended that students have their own scientific calculator for this course.	
Text: Larson, Ron et al., <u>Geometry: Concepts and Skills</u> .	

4201 HONORS ALGEBRA II	5 Credits
Honors Grade 10	
<ul style="list-style-type: none"> <i>Prerequisite: Successful completion of Geometry Honors or teacher approval</i> 	
<p>This course continues the offerings for those students with high interest, aptitude, and achievement in mathematics. There will be deeper treatment and extension of the topics and concepts of Algebra I. These</p>	

include complex numbers and polynomials, exponential and logarithmic functions. Conic sections will also be studied.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Text: Kanold, Timothy et al., Algebra 2.

4202 ALGEBRA II

5 Credits

**Advanced College Prep
Grades 10-11**

- *Prerequisite: Successful completion of Geometry ACP or teacher approval*

This course builds on students' understanding of Algebra I and emphasizes facility with algebraic expressions and equations, including linear and quadratic types, powers and roots, and logarithmic, polynomial, and other functions. Concepts are examined as tools for modeling real - world situations. The program also applies geometric ideas learned in the previous years, such as using formulas.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Text: Charles, Randall, et al., Algebra 2: Common Core.

4203 ALGEBRA II

5 Credits

**College Prep
Grades 10-11**

- *Prerequisites: Successful completion of a high school Algebra I and Geometry course.*

This course reinforces foundational concepts from Algebra I and geometry while emphasizing facility with algebraic expressions and equations, including linear and quadratic types, powers and roots, and logarithmic, polynomial, and other functions. Concepts are examined as tools for modeling real-world situations. The program also applies geometric ideas learned in the previous years, such as using formulas.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Text: Siegfried Haenisch, Algebra 2.

4301 HONORS PRECALCULUS

5 Credits

**Honors
Grade 11**

- *Prerequisite: Successful completion of Algebra II Honors or teacher approval*

This course emphasizes mathematical analysis through the study of polynomial, logarithmic, and trigonometric functions. Areas of study include advanced and modern algebra and trigonometry. This course is a prerequisite for AP/HON Calculus. Students electing this course are expected to elect Calculus in Grade 12.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84.

Text: Michael Sullivan, Precalculus.

4302 FUNCTIONS/STATISTICS/TRIGONOMETRY

5 Credits

Advanced College Prep Grades 11-12

- *Prerequisite: Successful completion of Algebra II ACP or teacher approval*

In this course, which focuses on trigonometry, functions, and statistics, students will display, describe, transform and interpret numerical information represented as data, graphs or equations. Students will use real functions, trigonometric functions, exponential and logarithmic functions to model and analyze real-world situations. This course will further encompass theory and analysis in the area of circular and trigonometric functions, identities, inverse functions and complex numbers. Basic statistics will be introduced. This course will also encourage the use of graphing calculators and technology for problem solving.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Texts: Blitzer; R. Pearson, Algebra and Trigonometry (5th edition) and Larson; R. Pearson, Elementary Statistics: Picturing the World (6th edition).

4303 FUNCTIONS/STATISTICS

5 Credits

College Prep Grades 11-12

Prerequisite: Successful completion of Algebra II or teacher recommendation.

In this course, which focuses on functions and statistics, students will display, describe, transform, and interpret numerical information represented as data, graphs, or equations. Students will use real functions, exponential and logarithmic functions to model and analyze real-world situations. Basic statistics will be introduced. This course will also encourage the use of graphing calculators and technology for problem solving.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Texts: Blitzer; R. Pearson, Algebra and Trigonometry (5th edition) and Larson; R. Pearson, Elementary Statistics: Picturing the World (6th edition).

4401AP ADVANCED PLACEMENT CALCULUS AB

5 Credits

Advanced Placement

Grade 12

- *Prerequisite: Successful completion of Pre-Calculus Honors and teacher approval*

This is a rigorous college-level course for outstanding students who will specialize in mathematics and/or related fields in college. This course will use graphing calculators for problem solving. It is a requisite for, but not a guarantee of, advanced placement in mathematics at the college level. To receive high school advanced placement credit for this course a student must take the AP exam in Calculus. Summer work may be required of students taking this course.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84.

***Student Fee Required:* Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.**

Text: Finney, Ross et al., Calculus Graphical, Numerical, Algebraic.

4401 HONORS CALCULUS

5 Credits

Honors Grade 12

- *Prerequisite: Successful completion of Pre-Calculus Honors or teacher approval*

This is a rigorous college-level course for students who will specialize in mathematics and/or related fields in college. Topics include a review of functions, introduction to limits and continuity, derivatives, antiderivatives, and the Fundamental Theorem of Calculus. Real-world applications and modeling will be emphasized. Students will use graphing calculators for problem solving. This is an introduction to college-level Calculus.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84.

Text: Finney, Ross et al., Calculus Graphical, Numerical, Algebraic.

4400 CALCULUS

5 Credits

Advanced College Prep Grade 12

- *Prerequisite: Successful completion of Pre-Calculus Honors or teacher approval*

This is a rigorous college-level course for students who may specialize in mathematics and/or related fields in college who seek exposure to college level calculus. Topics include a review of functions, introduction to limits and continuity, derivatives, antiderivatives, and the Fundamental Theorem of Calculus. Real-world applications and modeling will be emphasized. Students will use graphing calculators for problem solving. This is an introduction to college-level Calculus.

It is recommended that students have their own graphing calculator for this course. The Mathematics

Department suggests the TI-84.

Text: Finney, Ross et al., Calculus Graphical, Numerical, Algebraic.

4311 AP ADVANCED PLACEMENT STATISTICS

5 Credits

Advanced Placement

Grades 11- 12

Prerequisite: Recommendation of the previous mathematics teacher or the Program Supervisor.

The goal of this course is to prepare students for success in the A.P. Statistics exam. An additional goal is for students to see the applicability and power in statistical analysis as they develop the critical thinking skills provided by this course, leading them to become better-informed citizens and consumers. Topics of study include ways to display and summarize data, standard deviation, linear regression, randomness, probability, sampling, testing hypotheses, confidence intervals, and inferences. Summer work may be required of students taking this course.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Text: Bock, Velleman, and DeVeaux, Stats: Modeling the World: AP Edition (5th edition).

4300 SENIOR PRECALCULUS

5 Credits

Advanced College Prep

Grade 12

Prerequisite: Successful completion of Functions/Statistics/Trigonometry or recommendation of the teacher.

This course is intended to prepare students for calculus in college. Technology will be used, emphasizing content for the computer age. Topics to be covered are analysis of functions, limits, analytic geometry, trigonometry, sequences, mathematical induction and graph theory.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84.

Text: Ron Larson, Precalculus with Limits.

4305 INTRODUCTION TO PRECALCULUS

5 Credits

College Prep

Grade 12

- *Prerequisite: Successful completion of Functions/Statistics or teacher approval*

This course is for students who have completed Algebra II and Functions/Statistics and who seek an introduction to precalculus in preparation for college. Topics include a review of linear and exponential functions, and

polynomial functions and rational functions, and an introduction to trigonometric functions, identities, inverse functions, and complex numbers.

It is recommended that students have their own graphing calculator for this course. The Mathematics Department suggests the TI-84 calculator.

Text: Michael Sullivan, Precalculus. Arthur Coxford, Trigonometry.

4110 FINANCIAL ALGEBRA	5 Credits
College Prep Grade 12	
<ul style="list-style-type: none"> • <i>Prerequisite: Successful completion of Algebra II or teacher approval</i> <p>This course is for students who wish to study the practical application of real-world mathematics. Topics will include: the stock market, personal finances, loans, banking, business mathematics, employment and income taxes, understanding credit, the cost of living independently, and saving for retirement. This course builds on understanding and application of algebra, functions, probability, and statistics. Topics such as percent, rational and exponential equations, scatterplots and linear regression, spreadsheets and formulas, are examined and utilized as tools for modeling real-world situations, and applying mathematics to everyday life.</p> <p>Text: Robert Gerver; Richard Sgroi, <u>Financial Algebra: Advanced Algebra with Financial Applications</u>.</p>	

PHYSICAL EDUCATION

Graduation requirement - 10 Credits

Philosophy

The Physical Education program is an integral part of the total educational experience at Stoneham High School. The curriculum is designed around the concept of fitness education. Healthy bodies are essential to healthy minds; in order to be ready to learn, students must have proper health, nutrition, and exercise. The learning experiences are seasoned to fulfill the growth, development, and behavior needs of each student, and to teach students what physical fitness is and how they can maintain physical fitness throughout their adult lives. Physical Education classes are designed to meet the needs of all students. The advantages and courses available shall provide equal opportunity for all.

All Physical Education, Health and Wellness courses are taught at the College Preparatory designation

0025 GRADE NINE PHYSICAL EDUCATION	2.5 Credits
<p>This program builds the foundation of the high school curriculum. Students begin their journey by exploring the question, "What is fitness?" Activities implemented will help students to begin a lifetime journey of fitness through the learning of functional movements. All grade nine students will learn the basic skill of "Heart Saver" (CPR), First Aid and AED functions. All ninth graders will have the option to be Adult CPR certified.</p>	

0045 GRADE TEN AND ELEVEN PHYSICAL EDUCATION**2.5 Credits***Prerequisite: A passing grade in grade nine physical education*

This course will build on the fundamentals acquired in PE Grade 9. Students will spend the next two Years exploring the question, “How do I achieve and maintain fitness?” A wide variety of activities will be implemented to help students find their path to fitness. Activities will consist of different types of weight training programs and how they each benefit and affect the body, Team sports, net games, as well as recreational games.

0055 GRADE TWELVE PHYSICAL EDUCATION**2.5 Credits***Prerequisite: Five credits in grade 10/11 physical education*

As a student plans for his/her years beyond high school, it is important to blend personal fitness with good decision- making. Students will explore the question, “How does being fit help me contribute to my world?” Students will acquire the skills to navigate a lifetime of fitness through Choice of “lifetime activities”. Students will be able to create fitness programs for themselves or others. All twelfth grade students will be given an independent activity where, on their own time, will participate in an activity of their choice. Students will keep a log on their activity and begin to explore the importance of keeping active in their lifestyle outside of school.

SCIENCE

Graduation requirement - 15 credits including Biology

Philosophy

The Science Department offers a comprehensive program designed to prepare all students for success as scientists and life-long global citizens. Our science curriculum is designed around relevant, real-world issues to increase student motivation, intellectual engagement and sense making. As students progress in their science education at SHS, they will build a solid foundation of scientific and technological knowledge. Students will develop the ability to apply their knowledge to analyze and explain the world around them. Our science courses will help to prepare students for civic life, postsecondary education and career success. Connections are made throughout a student’s journey in their science education, starting with our ninth grade Earth and Space Science courses where students will learn about the Earth’s place in the universe, Earth’s Systems and the relationships between the Earth and human activity. Sophomore year, as students prepare for the Biology MCAS, they will continue their focus on the environment while adding the interrelationship between organisms and how they function. The standards expect students to understand the four core ideas of biology including; ecosystems, structure and function of organisms, heredity and biological evolution. Junior year, students have a choice to continue the traditional science pathway to Chemistry, (where they will apply their scientific and mathematical skills and knowledge to focus on matter and its interactions, motion and stability as well as energy), and/or branch off to explore our diverse selection of electives, including AP offerings. Senior year students can choose to continue with elective courses, or Physics. Our senior Physics course engages students with science and engineering practices of developing and using models, analyzing and interpreting data, using mathematics to solve problems and make predictions of a variety of phenomena such as motion, energy and waves.

The SHS Science curriculum is designed so that students develop an understanding of the science and engineering practices as outlined in the Massachusetts Science and Technology/Engineering Curriculum Framework.

Those practices include:

- Asking questions and defining problems
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data

- Using mathematics and computational thinking
- Constructing explanations and designing solutions
- Engaging in argument from evidence
- Obtaining, evaluating and communicating information

EARTH SCIENCE	5 Credits
5101 / Honors <ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Grade 8 Science and enrollment in honors mathematics or teacher approval</i> 5102 / Advanced College Prep <ul style="list-style-type: none"> • <i>Prerequisite: Successful completion of Grade 8 Science and enrollment in Advanced College Preparatory mathematics or teacher approval</i> 5103 / College Prep Grade 9	
<p>This course is designed for students who need to fulfill college requirements for a lab science course. The purpose of this course is: (1) to introduce students to the specific disciplines of astronomy, meteorology, geology, and oceanography and (2) to prepare college-bound students for the "most common" course which non-science majors choose to fulfill their science requirements in college. Laboratory exercises, projects, lectures, library and research reports are an integral part of this course.</p> <p>Text: McGraw-Hill, <u>Earth Science: Geology, the Environment and the Universe.</u></p>	

5411 AP ADVANCED PLACEMENT BIOLOGY	5 Credits
Advanced Placement Grade 11-12	
<ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Chemistry Honors and Biology Honors or teacher approval. Grade 11 students must be concurrently enrolled in Honors Chemistry and have a recommendation from their current Biology teacher.</i> <p>This course is a full second year biology class with a strong laboratory component. It is equivalent to an introductory college level biology course. Complex biological processes are studied and laboratory exercises are used to enhance the understanding of the topic. AP Biology is a rigorous course requiring strong study skills. Laboratory work may extend beyond allotted class periods and after -school time may be required. All AP Biology students will take the AP exam in Biology. A college level text is used. There is one extended laboratory period during one FLEX period per cycle. A summer assignment for students is required and will need to be completed prior to the beginning of the course. This assignment will consist of a self-directed study of several chapters in the course textbook.</p> <p>Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May.</p> <p>The cost of each AP test is determined and published by the College Board.</p> <p>Text: Steven Wasserman; Peter Minorsky; et. al., <u>Campbell Biology in Focus.</u></p> <p style="text-align: center;">THIS COURSE WILL NOT RUN IN THE 2023-2024 SCHOOL YEAR.</p>	

5311 AP ENVIRONMENTAL SCIENCE	5 Credits
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**Advanced Placement
Grade 11-12**

- *Prerequisites: Successful completion of Earth Science, Biology, and Chemistry or teacher approval*

Advanced Placement environmental science is an integrated science where students will study the basic ecological principles that govern the natural world and the many ways in which humans affect the environment. Topics include the following: ecosystems and how they function; finding balance among population, soil, water and agriculture; pollution; sustainability and natural resources. There will be an additional lab period during the seven-day cycle. Students will be expected to perform independent scientific investigations and will take the AP exam in May. Advanced Placement environmental science is open to all students who have completed biology and earth science. The approval of intensive or honors level earth science and biology teachers is required. Students should be enrolled in or have completed intensive or honors chemistry. A summer reading component with a written assignment for students prior to the beginning of the course is required. This will consist of several chapters in the textbook.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May.

The cost of each AP test is determined and published by the College Board.

Text: Prentice Hall, Environmental Science.

BIOLOGY

5 Credits

5201 / Honors

Grade 10

- *Prerequisite: Successful completion of Earth Science Honors or teacher approval*

5202 / Advanced College Prep

Grade 10

- *Prerequisite: Successful completion of Earth Science ACP or teacher approval*

This course is designed for students who need to fulfill college requirements for a lab science course. This course is geared to the student who wishes to obtain a comprehensive introduction to the science of biology and introduces the student to the basic properties of living organisms. Time is spent in the laboratory where practice in laboratory procedures and equipment is given, along with biological investigations. Students are required to utilize various laboratory skills. At the honors level, material will be covered at an accelerated pace requiring a serious and dedicated individual approach on the part of the student.

Text: HMH Science Dimensions: Biology

5203 BIOLOGY

5 Credits

College Prep

Grade 10

- *Prerequisite: Successful completion of Earth Science or teacher approval*

This course is designed for students who need to fulfill college requirements for a lab science course. This course is geared to the student who wishes to obtain a comprehensive introduction to the science of biology and introduces the student to the basic properties of living organisms. Time is spent in the laboratory where practice in laboratory procedures and equipment is given, along with biological investigations.

Text: HMH Science Dimensions, Biology.

5308 CONCEPTS IN BIOLOGY

2.5 Credits/Semester Course

College Prep
Grades 11 – 12

This is an overview of concepts from Biology that are typically applied in MCAS testing. Students will practice solving multiple choice, short answer, and open response MCAS questions. This one -semester course is also designed to be an exploration of general topics in science. It will involve an overview of the interrelationships of biology, chemistry, and our environment.

5209 ECOLOGY

5 Credits

College Prep
Grade 9

This course sequence is designed to assist students who have struggled in science and may need the course presented at a more individualized pace with more hands-on activities and one-to-one interaction with the teacher. During the first year, students will cover topics related to Environmental Science, incorporating concepts from the Earth Science curriculum as well as related biological concepts. Students in this course will have more time to practice and to prepare for the Grade 10 grade MCAS Biology exam.

Text: HMH Science Dimensions, Biology.

5301 AP ADVANCED PLACEMENT CHEMISTRY

5 Credits

Advanced Placement
Grades 12

- *Prerequisites: Successful completion of Algebra II Honors and Chemistry Honors or teacher approval*

This course is designed for students interested in careers in medicine, physical science, biological science and engineering. It is a rigorous college-preparatory program for first-year college chemistry. Topics covered include: chemical equations, energy in chemical reactions, atomic and molecular theory, the Periodic Table, states of matter, equilibria, solutions, reaction rates, acid-based chemistry, electrochemistry, organic and nuclear chemistry. Students will take the AP Chemistry Exam offered by the College Board.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

5301 HONORS CHEMISTRY

5 Credits

Honors
Grades 11 - 12

- *Prerequisites: Successful completion of Algebra II and Biology Honors or teacher approval*

This course is designed for college preparatory students who wish to obtain a good insight into the fundamentals of chemistry. Modern atomic theory receives a major emphasis. Students are also well grounded in the principles of ionization, electrolytes, acids, bases and salts, gas laws, chemical equilibrium, and redox reactions. Basic chemical mathematics and problem solving is stressed throughout. All these principles are augmented by practical applications during the one laboratory period each ten-day cycle. This course prepares students for college achievement tests in chemistry and for freshman college chemistry courses. As an Honors level course, material will be covered at an accelerated pace requiring a serious and dedicated individual approach on the part of the student. **A scientific calculator is required**

Text: Steven Zumdahl; Susan Zumdahl; Ronald DeCoste, World of Chemistry.

CHEMISTRY	5 Credits
5302 / Advanced College Prep <ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Algebra II and Biology ACP or teacher approval</i> 5303 / College Prep <ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Algebra II and Biology or teacher approval</i> 	
Grades 11-12	
<p>This course is designed for college preparatory students who wish to obtain a good insight into the fundamentals of chemistry. Modern atomic theory receives a major emphasis. Students are also well grounded in the principles of ionization, electrolytes, acids, bases and salts, gas laws, chemical equilibrium, and redox reactions. Basic chemical mathematics and problem solving is stressed throughout. All these principles are augmented by practical applications during the one laboratory period each ten-day cycle. This course prepares students for college achievement tests in chemistry and for freshman college chemistry courses. As an Honors level course, material will be covered at an accelerated pace requiring a serious and dedicated individual approach on the part of the student. A scientific calculator is required</p>	
Text: Prentice Hall, <u>Chemistry</u> .	

5401 AP ADVANCED PLACEMENT PHYSICS 1	5 Credits
Advanced Placement Grade 12	
<ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Pre-Calculus and Chemistry Honors or teacher approval</i> • <i>Co-requisite: Calculus</i> 	
<p>The emphasis in AP Physic 1 is in developing formulas from physical observations and then using these formulae in problem solving. In addition, algebra and trigonometry are often used in both problem solving and deriving formulas. This course is a rigorous college preparatory program for first year college physics courses. The AP curriculum includes a total of 7 units covering topics in mechanics (kinematics, dynamics, energy, linear and angular momentum). Students enrolled in AP Physics are required to attend an extra AP Physics laboratory period and AP Physics help during FLEX block.</p>	
<p>Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.</p>	
Text: Prentice Hall, <u>Physics</u> .	

PHYSICS	5 Credits
5401 / Honors 5402 / Advanced College Prep 5404 / College Prep Grade 12	
<ul style="list-style-type: none"> • <i>Prerequisites: Successful completion of Biology and successful completion or current enrollment in Algebra II or teacher approval</i> <p>The focus of this course will focus on the basic concepts of physics. Through hands-on activities, projects and laboratory work, students will build critical thinking and problem solving skills and gain a conceptual understanding of physics and its connections to the natural and man-made world. Comprehension of concepts before calculation is the key to understanding physics in this course, although concepts in Algebra and basic trigonometry will be used in describing physical phenomena quantitatively. Students will learn about the different types of energy that affect the observable universe, including Kinetic, Gravitational, Elastic, and Electrical energies.</p> <p>Text: McGraw-Hill, <u>Glencoe Physics: Principles with Application</u>.</p>	

ANATOMY AND PHYSIOLOGY	5 Credits
5410 / Honors: Students will complete individual and collaborative assessments without any modifications. Additional article readings, research and webquests may be assigned for independent work. 5412 / Advanced College Prep: Students will complete individual and collaborative assessments with modifications. (Some examples of modifications for individual assessments include use of word banks/notes and partner quizzes/ tests. Grades 11-12	
<p><i>Prerequisites: Successful completion of Biology and Chemistry ACP or Honors</i></p> <p>This full-year course focuses on the structure and function of the human body. After a brief review of chemistry and the human cell, most of the course time will be spent on mastering the anatomy of the body's organ systems and the details of the functions they perform. Students will have the opportunity to research and present case studies/clinical work related to human diseases and disorders. The course includes laboratories, lectures/ discussions and projects. This course is designed for students who wish to pursue a degree in the health professions like nursing, medicine, physical therapy and the biological sciences.</p> <p>Text: McGraw-Hill, <u>Hole's Anatomy and Physiology</u> (11th edition).</p>	

CLIMATE SCIENCE	2.5 Credits/Semester Course
5514 / Advanced College Prep 5515 / College Prep Grades 11-12 (or 10th with instructor approval)	

This course will study topics in climate science. Units topics will include understanding the relationship of physics and chemistry to the climate, physical effects, biological effects and economical implications will also be examined. Hands-on activities, labs and technology-based lessons are an integral part of this course.

OCEANOGRAPHY	2.5 Credits/Semester Course
5524 / Advanced College Prep 5522 / College Prep Grades 11-12	
<ul style="list-style-type: none"> • <i>Prerequisite: Successful completion of Biology</i> <p>This semester course is a general overview of marine biology designed for students who want to learn more about ocean life. Unit topics include early ocean exploration, marine environments as well as a survey of marine life: algae, plants, invertebrates, fish, reptiles, birds, and mammals.</p> <p>Text: Amsco, <u>Marine Science</u>.</p>	

FORENSIC SCIENCE	2.5 Credits/Semester Course
5421 / Honors <i>Students will complete individual and collaborative assessments without any modifications. Additional article readings, research and webquests may be assigned for independent work.</i> 5422 / Advanced College Prep <i>Students will complete individual and collaborative assessments with some modifications.</i> 5423 / College Prep <i>Students will complete individual and collaborative assessments with modifications.</i> Grades 11 - 12	
<p><i>Prerequisite: Successful completion of Biology.</i></p> <p>In this course students will acquire the knowledge of basic scientific concepts and technologies related to solving crime in society. These specific principles will then be applied and authenticated through discussion and realistic scenarios and engaging in concrete learning activities such as laboratory experiments, internet research assignments and the completion of case study examples.</p>	

PLTW PRINCIPLES OF BIOMEDICAL SCIENCE	5 Credits
5315 / Honors 5314 / Advanced College Preparatory 5312 / College Preparatory Grades 9 - 12	
<p><i>Prerequisite: Minimum grade of B- in grade 8 science for incoming Grade 9 students. Minimum grade of C in a high school level Science course for students in grades 10 - 12.</i></p>	

This course may be taken concurrently with the required grade 10 Biology course.

In the introductory course of the Project Lead the Way Biomedical Science program, students explore concepts of biology, the human body and medicine to determine the factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. Students will have the opportunity to act as a member of a disease defense team, investigating a mysterious community infection. Work on a medical emergency response team where quick assessment and decisions are essential

The activities and projects introduce students to human physiology, basic biology, medicine, and research processes as they perform experiments to solve problems. **This course fulfills one year of the student science requirement.**

PLTW HUMAN BODY SYSTEMS

5 Credits

5331 / Honors

5334 / Advanced College Prep

5335 / College Prep

Grades 10 - 12

Prerequisite: Recommend successful completion of Principles of Biomedical Science and Biology or C or higher in a grade 9 Science course.

In the yearlong course, students explore the neurology and physiology of humans, including identity, personality, movement, power, immunity, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal “Maniken”; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; students will apply their knowledge of the body systems and create a biometric-based security plan for a real-world client or the role of a sport medicine expert to develop a training plan for a professional athlete. Then they will take on roles of biomedical professionals to solve real-world medical cases.

This course fulfills the student science graduation requirement.

PLTW MEDICAL INTERVENTIONS

5 Credits

5338 / Honors

5336 / Advanced College Preparatory

Grades 11-12

Prerequisite: Successful completion of Principles of Biomedical Science, Human Body Systems, and Biology and teacher recommendation.

This yearlong Advanced College Preparatory/College Preparatory course is for students in grades 11 and 12. Students follow the life of a family through a series of medical challenges, learning alongside them how to prevent, diagnose, and treat diseases. Students explore the wide variety of professions in the biomedical sciences field as they learn how to detect and fight infection, screen and evaluate the code in human DNA, and evaluate cancer treatment options. Students apply their learnings to design a nanotechnology-based or immunotherapy cancer treatment and create a clinical trial to test its safety and efficacy, just like work currently being done by scientists in biomedical companies right in our own Massachusetts backyard.

This yearlong Honors/ Advanced College Preparatory course is for students in grades 11 and 12.

This course fulfills one year of the student science requirement.

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS	2.5 Credits
5623 / Honors 5622 / Advanced College Prep Grades 9-12	
<i>Prerequisites: Basic computer skills and the ability to work independently on projects that require reading and following step-by-step instructions</i> Students learn the basic functions of popular Geographic Information System software (e.g. ArcGIS, QGIS, Google Earth, etc.), conducting several small case studies that use real data from real situations that are encountered in professional fields such as law enforcement, planetary exploration, environmental science, geology, meteorology, archaeology, epidemiology, civil engineering, outdoor recreation, transportation, politics, insurance, marketing, and real estate. Additional topics include learning how to read maps, compass navigation, global positioning systems, basic survey techniques, the “art” of cartography, and using the science department drone to collect field data that is used to create a 3D map and model. This STEM course is mainly intended for students that are interested in computers, digital graphics, geography, statistics, and/or science. This course fulfills the student technology <u>or</u> science graduation requirement.	

PLANETARY EXPLORATION THROUGH REMOTE SENSING	2.5 Credits Semester Course
5631 / Honors 5632 / Advanced College Prep 5633 / College Prep Grades 10-12	
Is there another Earth somewhere in the universe? There are known to be over 150 moons and planets in our solar system and nearly 1000 exoplanets outside of our solar system. Remote sensing technology is used to detect the chemical, physical, and possible biological properties of these planets, moons, and other celestial bodies that are enormous distances from Earth. This course focuses on the designs, missions, and findings of planetary probes, satellites, landers, rovers, and telescopes. Course topics include the nature and characteristics of light, the history of solar system exploration, rockets, the technology of remote sensing, the atmospheric and geologic features of extraterrestrial worlds, human survival beyond Earth’s atmosphere, and potential characteristics of alien life. STEM-based coursework will include the construction and launching of model rockets, the design and construction of a robotic rover, planetary investigations and exploration using geographic information systems, and using a drone to collect remote sensing data of the high school campus.	

GEOSCIENCE	2.5 Credits/Semester Course
5642 / Advanced College Prep 5643 / College Prep Grades 10-12 <p style="text-align: center;">Not offered 2023-2024 School Year</p>	

This course introduces students to Earth Science and mainly focuses on Geology. Geology is the study of Earth's structure and history, along with the processes that have shaped the planet. Topics may include minerals, gemstones, rocks, natural resources, water, weathering and erosion, earthquakes, the interior of Earth, volcanoes, mountain building, plate tectonics, and geologic time. A secondary goal of the course is to familiarize students with the geographic locations of Earth's amazing geological landscapes. Virtual reality and augmented reality tools will be used to immerse students into the features and processes found at these locations. Basic chemistry, some physics concepts, and related mathematics are also introduced to better prepare students for progressing to yearlong Chemistry and Physics courses, but students who have already taken Chemistry are still encouraged to enroll.

GENETICS	2.5 Credits
5329 / Advanced College Prep <ul style="list-style-type: none"> • <i>Prerequisite: Successful completion of Biology</i> 5326 / College Prep <ul style="list-style-type: none"> • <i>Prerequisite: Successful completion of Biology</i> Semester Course GRADES 11-12	
<p>Since the mystery of the DNA double helix was unraveled in 1953, scientists have been learning how DNA works to provide a blueprint of an organism. The advent of DNA biotechnology has charted the course for how genetics can be used in medicine, agriculture, forensics and in one's life. This semester course will offer an in-depth study of genetics which will include the following topics: inheritance, genetic disorders, epigenetics, population genetics, DNA technology and current applications in society. Related careers will also be explored.</p> <p>For the CP level, summative assessments may be scaffolded with things like; word banks, short-answer vocabulary prompts, decreased multiple choice choices, data tables with data analysis started. Many projects and case studies are given in the course and students are given options to choose the topic that meets both their interest and level of difficulty.</p>	

TECHNOLOGY

Philosophy

At Stoneham High School we believe that all students will need a working knowledge of technology applications and use in the world around them. Through the courses offered in our Technology and Computer Science Department students have an opportunity to discover the vast career opportunities in the technology field, advance their knowledge of general productivity tools and how these tools may be used for collaboration, creativity, communication and problem solving.

The Game Design and Development, Web Design and Development, Computer Science Essentials and Computer Science Principles courses provide students with hands-on development opportunities.

COMPUTER APPLICATIONS I	2.5 Credits/Semester Course
6530 / Advanced College Preparatory	

Grades 9-12

Computer application skills are critical for success in the 21st Century. All careers will utilize computers and technology applications to enhance efficiency and communication. This is a project-based, hands-on course focusing on the advanced use of computer applications such as spreadsheets, documents and presentations to gather, analyze and present information. Students integrate a variety of applications in problem solving and research, navigate digital information, social media and the web in a safe and ethical manner. Computer Science concepts are introduced.

This course fulfills the student technology graduation requirement.

COMPUTER APPLICATIONS II**2.5 Credits/Semester Course**

**6531 / Advanced College Preparatory
Grades 9-12**

Prerequisite: Successful completion of Computer Applications I

This course is for students who are interested in earning Microsoft Office Specialist (MOS) certifications (industry-recognized credentials that validate proficiency in technical skills) in Microsoft Word and Microsoft Powerpoint. Students work independently and in groups to complete a training course designed to prepare them for MOS certification exams at the end of the course. They receive individualized and group instruction as they independently complete online lessons, lab exercises and real-life problems-solving projects.

WEB DESIGN AND DEVELOPMENT

**6532 / Advanced College Preparatory
Grades 9-12**

Students learn how to create and share content of web pages. They structure and style pages using HTML and CSS, learn javascript and create a multipage, interactive website that can be published to the internet. Students use online and desktop editors and research hosting websites. This project-based course combines whole group instruction with the opportunity for independent and self-paced learning. This course is designed for students who wish to learn the basics of web page design, web hosting, industry standards and web development careers.

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**2.5 Credits**

**5623 / Honors
5622 / Advanced College Prep
Grades 9-12**

Prerequisites: Basic computer skills and the ability to work independently on projects that require reading and following step-by-step instructions

Students learn the basic functions of popular Geographic Information System software (e.g. ArcGIS, QGIS, Google Earth, etc.), conducting several small case studies that use real data from real situations that are encountered in professional fields such as law enforcement, planetary exploration, environmental science, geology, meteorology, archaeology, epidemiology, civil engineering, outdoor recreation, transportation, politics, insurance, marketing, and real estate. Additional topics include learning how to read maps, compass navigation, global positioning systems, basic survey techniques, the “art” of cartography, and using the science department drone to collect field data that is used to create a 3D map and model. This STEM course is mainly intended for students that are interested in computers, digital graphics, geography, statistics, and/or science.

This course fulfills the student technology or science graduation requirement.

PLTW COMPUTER SCIENCE ESSENTIALS

5 Credits

**7520 / Honors
Grades 9-12**

Students are introduced to coding fundamentals through approachable, block-based programming languages where they have early success in creating usable apps. Students sharpen their computational thinking skills and transition to programming environments that reinforce coding fundamentals by block and text based programming. Students explore the power of text-based programming as they are introduced to the Python® programming language and explore/develop cross-curriculum applications. The course engages students in computational thinking practices and collaboration strategies, as well as industry standard tools authentic to how computer science professionals work. Students learn about professional opportunities in computer science and how computing can be an integral part of all careers today.

This course fulfills the student technology graduation requirement.

PLTW AP COMPUTER SCIENCE PRINCIPLES

5 Credits

**7521 Advanced Placement
Grades 10-12**

Prerequisite: Successful completion of PLTW Computer Science Essentials and teacher recommendation

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs in the Python® programming language. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

This course fulfills the student technology graduation requirement.

Student Fee Required: Students taking this AP level course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

PLTW INTRODUCTION TO ENGINEERING DESIGN

5 Credits

7546 / Advanced College Prep
7547 / College Prep
Grades 9-12

Each PLTW Engineering course engages students in interdisciplinary activities such as working with a client to design a home, programming electronic devices or robotic arms, or exploring algae as a biofuel source. In the first course of the engineering pathway, students will learn the foundational skills of an engineer and apply what they learn to manage an engineering design process from concept to solution. Working collaboratively on a team, students develop user-centric design principles to ensure products meet customer needs, build and test prototypes, evaluate prototype effectiveness, and use these insights to iterate, improve, and deliver an effective solution. Using the same CAD/ 3D modeling and design tools engineering professionals use, students reverse engineer a product to understand the design decisions made by the creator.

This course fulfills the student technology OR science requirement.

PLTW PRINCIPLES OF ENGINEERING

5 Credits

7541 / Honors
Grades 10-12

Prerequisite: Successful completion of Algebra I or approval of instructor

This is a high school level survey course of engineering which exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Students have the opportunity to investigate engineering and high-tech careers. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

This course fulfills the student technology OR science requirement.

6537 VIDEO GAME DESIGN AND DEVELOPMENT I

2.5 Credits/Semester Course

Advanced College Prep
Grades 9-12

Students learn the fundamentals of video game design and development. Students develop coding experience as they design animations, interactive art, and games. Students use Computer Science programming concepts, computational thinking and design processes to code simple shapes, progressing to more sophisticated sprite-based games. This project-based course combines whole group instruction with the opportunity for independent and self-paced learning for those students who are interested in more sophisticated applications in the areas of design and computer games. This course is designed for students who wish to learn the basics of video game design and computer science skills.

This course fulfills the student technology graduation requirement.

6538 VIDEO GAME DESIGN AND DEVELOPMENT II

2.5 Credits/Semester Course

Prerequisite: Successful completion of Video Game Design and Development I

**Advanced College Prep
Grades 9-12**

Students extend their game design and development experience by coding, in java, a multilevel sprite based game of their choice. This project-based course offers the opportunity for independent and self-paced learning and is designed for students who wish to extend their video game design and computer science skills. Students research the video game industry, identify career opportunities and produce proposals, specifications and project planning documentation about their game.

6539 INTRODUCTION TO DIGITAL FILM EDITING

2.5 Credits/Semester Course

**Advanced College Prep
Grades 9-12**

This course serves as an introduction to the basics of film editing. Students will use various programs to create short multimedia pieces. Students will learn the basics of importing and editing film images, audio and video to create short documentaries, public service announcements, and original films. Prospective students should have an interest in screenwriting, theater arts, journalism, and cinematography. Students work in teams on all projects. **This course fulfills the student technology graduation requirement.**

6540 ADVANCED DIGITAL FILM EDITING

2.5 Credits/Semester Course

**Advanced College Prep
Grades 9-12**

Prerequisite: Successful completion of Digital Film Editing and instructor approval

This course is designed for students who wish to continue their work in film editing. All student work will be completed on the Avid Xpress DV digital editing system. Xpress requires a basic understanding of computers, but offers unlimited opportunities for budding editors who commit themselves to it. Prospective students should have an interest in screenwriting, theater arts, journalism, and cinematography. Students work in teams on all projects. In addition to further study of the Avid editing software, topics will include fundamentals of studio and camera lighting, audio editing and mixing, and cinematography. All projects will incorporate self and peer critiques.

This course fulfills the student technology graduation requirement.

WORLD LANGUAGES

Philosophy

The World Language Department at Stoneham High School provides a wide range of course offerings in French, Italian and Spanish. The focus of the program is to provide experiences that build motivation and enthusiasm for world language study. Classes are dynamic, rigorous and engaging, and foster the development of critical thinking and cross cultural awareness. Embedded in our curriculum is our core 21st Century Learning Expectations: Students think critically and communicate clearly and effectively.

Prerequisite for all languages: It is recommended that students should maintain a B- average or higher to continue at the current academic level. Students should consult each year with their current teacher to assist in making decisions about the appropriate academic level.

Students who elect World Language at the Honors Level should be prepared for a fast-paced, rigorous experience , conducted primarily in the target language.

FRENCH I	5 Credits
3112 / Advanced College Prep 3113 / College Prep Grades 9-12	
<p><i>This course is intended for students who have never studied French or that struggled with French at the Middle School level.</i></p> <p>During the first year, students will perform simple communicative tasks such as greeting and responding to greetings, asking and answering simple questions, expressing likes and dislikes, and exchanging simple, concrete information. Students will explore the French Language through topics such as school, food, family, film and travel. Listening, speaking, writing and reading and francophone culture will be emphasized.</p> <p>Text: EMC Paradigm, <u>T'es Branche 1.</u></p>	

FRENCH I	5 Credits
3111 / Honors Grades 10-12	
<p><i>Prerequisite: This course is open to any junior or senior who has successfully completed at least two years of another language, and to sophomores who are simultaneously enrolled in another language. Please note all students can be enrolled in more than one language at a time. Teacher recommendation required.</i></p> <p>During the first year, students will perform simple communicative tasks such as greeting and responding to greetings, asking and answering simple questions, expressing likes and dislikes, and exchanging simple, concrete information. Students will explore the TARGET Language through topics such as school, food, family, film, and travel. Listening, speaking, writing and reading and francophone culture will be emphasized. In addition to the required curriculum tasks, students enrolled in the honors course will complete a quarterly project in which they must compare an area of the target language and culture community to the community of their previously studied language and culture. This project will be presented to the class.</p> <p>Text: EMC Paradigm, <u>T'es Branche 1.</u></p>	

FRENCH II	5 Credits
3121 / Honors 3122 / Advanced College Prep 3123 / College Prep Grades 9 - 12	

Students use sentences, strings of sentences, and combinations of learned words, phrases, and expressions. They begin to create new combinations of the language they have learned in French I. Students will ask and respond to questions to clarify information, exchange opinions about people and activities, and discuss class readings. Students will read short stories, narratives, advertisements and brochures. Students will also write simple paragraphs, notes, letters, and email as well as give presentations on cultural topics.

Text: EMC Paradigm, T'es Branche 2.

FRENCH III

5 Credits

3131 / Honors

3132 / Advanced College Prep

3133 / College Prep

Grades 10-12

In French III, students are able to produce and comprehend fluid sentence -length and paragraph-length messages. Students will be able to suggest possible solutions to a problem, discuss personal feelings and ideas to persuade someone to consider an alternate viewpoint, and share personal reactions to authentic literary texts. This course will engage students as they explore the different cultures of French-speaking countries. Students will read articles, plays and stories, and understand themes, characters, and setting. Students will be able to comprehend narration in present, past and future tenses in reading, audio and videotext.

Text: EMC Paradigm, T'es Branche 3.

FRENCH IV

5 credits

3141 / Honors

3142 / Advanced College Prep

3143 / College Prep

Grades 11-12

At this level, students convey messages of paragraph length in speaking and essay length in writing. Students will be able to initiate, sustain, and close a conversation, negotiate a compromise, discuss national, international, or current events, exchange and substantiate opinions, and analyze literary text. This course will engage students as they explore the different cultures of French-speaking countries. Students will write analytical essays, prepare oral and videotaped reports on a personal interest, and narrate in all tenses.

Texts: Geoffrey Hope; Quentin Hope, L'Art de Lire ; Le Petit Prince; and Les Aventures du Petit Nicolas.

3152 FRENCH V

5 Credits

Advanced College Placement

Grades 11-12

Students at this level are able to speak the language with sufficient accuracy to participate effectively in most informal conversations. The course will emphasize the use of the French language to improve oral communication and help students to develop the ability to speak and understand the language in a variety of contexts. The course will engage students to explore the different cultures of the French speaking countries. Students will learn to use the three modes of communication: interpersonal, interpretive and presentational. They will be required to read articles and excerpts from French magazines, newspapers and literary texts. They will have to explore

several websites focusing on the culture of the francophone countries. Students will refine verbal and written language skills; they will be able to apply language competencies beyond the school setting.

Texts: Yvone Lenard, Tresor du Temps; Pearson/Prentice Hall, Une Fois Pour Toute.

3151AP ADVANCED PLACEMENT FRENCH LANGUAGE

5 Credits

Advanced Placement Grades 11-12

This fifth year French language course enables students to develop advanced proficiency in the language skills of listening, speaking, writing and reading. The course will emphasize the use of the French language to improve oral communication and help students to develop the ability to speak and understand the language in a variety of contexts. The course will engage students to explore the different cultures of French-speaking countries. Students will learn to use the three modes of communication: interpersonal, interpretive and presentational. They will be required to read articles and excerpts from French magazines, newspapers and literary texts. They will explore several websites focusing on the culture of the francophone countries. Students will refine verbal and written language skills; they will be able to apply language competencies beyond the school setting. Students will prepare to take the Advanced Placement test in May.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Text: Richard Ladd. Preparing for the AP Exam Language and Culture; Yvone Lenard, Tresors du Temps.

3312 ITALIAN I

5 Credits

Advanced College Prep Grades 9-12

This course is intended for students that have never studied Italian or struggled with Italian at the Middle School level.

During the first year, students will perform simple communicative tasks such as greeting and responding to greetings, asking and answering simple questions, expressing likes and dislikes, and exchanging simple, concrete information. Students will explore language through topics such as school, family, food and travel. Listening, speaking, writing and reading in the present tense, and Italian culture will be emphasized.

Texts: Carla Larese Riga, Ciao!

3311 ITALIAN I

5 Credits

Honors Grades 10-12

Prerequisite: This course is open to any junior or senior who has successfully completed at least two years of another language, and to sophomores who are simultaneously enrolled in another language. Please note all students can be enrolled in more than one language at a time. Teacher recommendation required.

During the first year, students will perform simple communicative tasks such as greeting and responding to greetings, asking and answering simple questions, expressing likes and dislikes, and exchanging simple, concrete information. Students will explore the language through topics such as school, family, food, and travel. Listening, speaking, writing, and reading in the present tense, and Italian culture will be emphasized. In addition to the required curriculum tasks, students enrolled in the honors course will complete a quarterly project in which they must compare an area of the target language and culture community to the community of their previously studied language and culture. This project will be presented to the class.

Texts: Carla Larese Riga, [Ciao!](#)

3313 ITALIAN IA	5 Credits
College Prep Grades 9-11	
<p>Italian 1A and 1B at the College Preparatory level is a program designed for students who need extra time and a slower pace when acquiring a second language. <i>This program takes two years to complete Italian 1 College Preparatory.</i> At the end of two years (Italian 1A and Italian 1B), students will have earned the equivalent of one full year of high school Italian in terms of college requirements. In Italian 1A, students will perform simple communicative tasks using single words in naming articles or listing favorite foods. Students will also use common expressions to tell time, the date, or the weather. Students will learn to form complete sentences. Listening, speaking, writing and reading, and Italian culture will be emphasized.</p> <p>Text: Joanne Perrotta Pauselli; Stefano Morel, Avanti con L'Italiano.</p>	

3315 ITALIAN IB	5 Credits
College Prep Grade 10-12	
<p><i>Prerequisite: Italian 1A</i></p> <p>Italian 1B covers the second half of the text used in Italian 1A. Students enrolled in this course <i>MUST</i> have successfully completed Italian 1A. Successful completion of Italian 1A and IB will earn the equivalent of one full year of high school Italian in terms of college requirements. In Italian 1B, students grow in their performance of simple communicative tasks: ask and answer questions, make and respond to requests, exchange factual information, express needs. They will continue to enhance their listening, reading, writing and speaking skills.</p> <p>Text: Joanne Perrotta Pauselli; Stefano Morel, Avanti con L'Italiano.</p>	

ITALIAN II	5 Credits
3321 / Honors 3322 / Advanced College Prep 3323 / College Prep Grades 9-12	
<p>In this class, students use sentences, strings of sentences, and combinations of learned words, phrases, and expressions. They begin to create new combinations of the language they have learned in Italian 1. Students will</p>	

ask and respond to questions to clarify information, exchange opinions about people and activities, and discuss class readings. Students will read short stories, narratives, advertisements and brochures. Students will communicate using the past, present and future tenses and will write simple paragraphs, notes, letters, and emails as well as give presentations on cultural topics.

Text: Carla Larese Riga, Ciao!

ITALIAN III

5 Credits

3331 / Honors

3332 / Advanced College Prep

3333 / College Prep

Grades 10-12

In Italian 3, students are able to produce and comprehend fluid sentence-length and paragraph-length messages. Students will be able to suggest possible solutions to a problem, discuss personal feelings and ideas to persuade someone to consider an alternate viewpoint, and share personal reactions to authentic literary texts. Students will read articles, plays, stories and understand themes, character and setting. Students will be able to comprehend narration in present, past and future tenses in reading, audio, and videotext.

Text: Graziana Lazzarino, Da Capo.

ITALIAN IV

5 Credits

3341 / Honors

3342 / Advanced College Prep

3343 / College Prep

Grades 11-12

At this level, students study the history of Italy from the Roman Empire to modern day politics, to focus on grammatical concepts both new and old. At this level students will be reading historical information, short stories, and novels, interpreting artwork, and watching Italian films to initiate verbal and written discussion. Students will be able to convey messages of paragraph length in speaking and essay length in writing. Students will be able to initiate, sustain and close a conversation, negotiate a compromise, discuss national, international, or current events, exchange and substantiate opinions, and analyze literary texts. Students will write analytical essays, prepare oral and visual reports on Italy's history, and narrate in all tenses.

3352 ITALIAN V

5 Credits

Advanced College Prep

Grades 11-12

At this level, students convey messages of paragraph length in speaking and essay length in writing. Students will be able to initiate, sustain, and close a conversation, negotiate a compromise, discuss national, international, or current events, exchange and substantiate opinions, and analyze literary texts. Students can write most types of correspondence and statements of position.

Text: Houghton-Mifflin, Ponti.

3351 AP ADVANCED PLACEMENT ITALIAN LANGUAGE	5 Credits
Grades 11-12	
<p>Students at this level are able to speak the language with sufficient accuracy to participate effectively in most informational conversations. They can support opinions and hypotheses and will be able to discuss in-depth highly abstract topics. They can write most types of correspondence and statements of position. They will read a novel from which they will gain a deeper understanding of Italian Language and Culture. Students will prepare to take the Advanced Placement test in May. Students will be given listening and/or reading assignments to complete over the summer.</p> <p>Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.</p> <p>Text: Houghton-Mifflin, <u>Ponti</u>.</p>	

3212 SPANISH I	5 Credits
Advanced College Prep Grades 9-12	
<p><i>This course is intended for students who have never studied Spanish or struggled with Spanish at the Middle School level.</i></p> <p>During the first year, students will perform simple communicative tasks such as greeting and responding to greetings, asking and answering simple questions, expressing likes and dislikes, and exchanging simple, concrete information. Listening, speaking, writing and reading, and Spanish culture will be emphasized.</p> <p>Text: Holt McDougal, <u>Avancemos</u>.</p>	

3213 SPANISH IA	5 Credits
College Prep Grades 9-11	
<p>Spanish 1A and 1B at the College Preparatory level is a program designed for students who need extra time and a slower pace when acquiring a second language. <i>This program takes two years to complete Spanish I College Preparatory.</i> At the end of two years (Spanish 1A and Spanish 1B), students will have earned the equivalent of one full year of high school Spanish in terms of college requirements. In Spanish 1A, students will perform simple communicative tasks using single words in naming articles or listing favorite foods. Students will also use common expressions to tell time, the date, or the weather. Listening, speaking, writing, reading, and Spanish culture will be emphasized. This course covers chapters 1 -4 of the text.</p> <p>Text: Holt McDougal, <u>Avancemos IA</u>.</p>	

3215 SPANISH IB	5 Credits
College Prep Grade 10-12	
<i>Prerequisite: Spanish IA</i>	

Spanish 1B, covers the second half of the text used in Spanish 1A. Students enrolled in this course ***MUST*** have successfully completed Spanish IA. Successful completion of Spanish IA and Spanish IB will earn the equivalent of one full year of high school Spanish in terms of college requirements. In Spanish IB, students will grow in their performance of simple communicative tasks: ask and answer questions, make and respond to requests, exchange factual information, and express needs. They will continue to enhance their listening, reading, writing and speaking skills.

Text: Prentice Hall, Avancemos IB.

SPANISH II	5 Credits
3221 / Honors 3222 / Advanced College Prep Grades 9-12 3223 / College Prep Grades 10 - 12	
<p>In this class, students use sentences, strings of sentences, and combinations of learned words, phrases, and expressions. They begin to create new combinations of the language they have learned in Spanish 1. Students will ask and respond to questions to clarify information, exchange opinions about people and activities, and discuss class readings. Students will read short stories, narratives, advertisements and brochures. Students will be asked to listen to a variety of authentic material and demonstrate their understanding. Students will also write simple paragraphs, notes, letters and email as well as give presentations on cultural topics.</p> <p>Text: Holt McDouga, <u>Avancemos</u>.</p>	

SPANISH III	5 Credits
3231 / Honors 3232 / Advanced College Prep 3233 / College Prep Grades 10-12	
<p>In Spanish III, students are able to produce and comprehend fluid sentence -length and paragraph-length messages. Students will be able to suggest possible solutions to a problem, discuss personal feelings and ideas to persuade someone to consider an alternate viewpoint, and share personal reactions to authentic literary texts and films. Students will read articles, plays, stories, watch films, and understand themes, characters, and setting. Students will be able to comprehend narration in present, past, and future tenses in reading, audio and videotext.</p> <p>In addition, students will utilize technology and imitate correct pronunciation.</p> <p>Text: Holt McDougal, <u>Avancemos</u>.</p>	

SPANISH IV	5 Credits
3241 / Honors 3242 / Advanced College Prep 3243 / College Prep Grades 11-12	

Conducted primarily in Spanish, students in Spanish IV sharpen previously-learned skills with more complex communication in the Spanish language. Students review solidly previously-learned concepts, increase their cultural understanding of the Spanish-speaking world and learn more advanced grammatical structures and vocabulary. Students read and discuss various literary selections in the target language. Students' writing and listening skills will receive close attention through classroom exchanges.

Text: Holt McDougal, [Avancemos](#).

3252 SPANISH V

5 Credits

Advanced College Prep Grades 11-12

At this level, students convey messages of paragraph length in speaking and essay length in writing. Students will be able to initiate, sustain, and close a conversation, negotiate a compromise, discuss national, international, or current events, exchange and substantiate opinions, and analyze literary text. Students will write analytical essays, prepare oral and videotaped reports on a cultural interest, and narrate in all tenses. Students will understand and make connections with other cultures by watching and analyzing movies in the target language.

Text: Thomson Learning, [Perspectivas](#).

3251 AP ADVANCED PLACEMENT SPANISH LANGUAGE

5 Credits

Grades 11-12

Students at this level are able to speak the language with sufficient accuracy to participate effectively in most informal conversations and formal presentations. They can support opinions and hypotheses and will be able to discuss in-depth highly abstract topics. They can write most types of correspondence and statements of position. They will read short stories and plays and discuss themes involved. They will make connections between the target cultures and their own culture. Students will prepare to take the Advanced Placement test in May. Students will be given preparatory assignments to do over the summer.

Student Fee Required: Students taking this AP course are expected to take the Advanced Placement test in May. The cost of each AP test is determined and published by the College Board.

Texts: Prentice Hall, [Abriendo Paso Lectura](#); Prentice Hall, [Abriendo Paso Gramatica](#); Longman, [Preparing for the AP Language Exam](#), and Pearson, [Una Vez Mas](#).

STUDENT SUPPORT DEPARTMENTS

English Language Learning (ELL)

Philosophy

The English Language Learner (ELL) Program is designed to meet the linguistic, academic and social needs of English Language Learners who attend Stoneham High School. ELs are students who are learning English as a second or additional language and who are not yet proficient in English at their grade level. The ELL Program creates a welcoming and challenging learning community where students acquire proficiency in both conversational and academic English. Students are enrolled in rigorous ESL courses taught by certified ESL teachers, and **learn English in the areas of listening, speaking, reading, and writing**. Students are also enrolled in academic courses taught by educators with sheltered English immersion (SEI) endorsement, with methods of teaching that are responsive to the learning needs of students developing English language proficiency. Students are assessed annually using the WIDA-ACCESS test of English language proficiency. This assessment tool is used in many states nationwide which are members of the WIDA consortium.

9992 ESL I	5 Credits
Open to ELL students at WIDA-ACCESS levels 1 & 2	
ESL I offers instruction in listening, speaking, reading and writing in English. Students study both conversational and academic English. This course includes explicit instruction in vocabulary, grammar, reading comprehension, and writing. Students read, write and discuss a variety of fiction and non-fiction texts. Writing progresses from the single word level through phrases and simple sentences to some paragraphs. Students create basic oral and visual presentations. Technology is integrated to include audio, video and graphic representations of vocabulary and concepts.	

9993 ESL II	5 Credits
Open to ELL students at WIDA-ACCESS levels 3 & 4	
ESL II offers intermediate instruction in listening, speaking, reading and writing in English. Students study both conversational and academic English. This course includes explicit instruction in grammar, reading comprehension, and vocabulary. Students read, write and discuss a variety of fiction and non-fiction texts. Writing progresses from simple sentences and paragraphs to more complex sentence structures and longer, more elaborate, multi-paragraph essays. Students create more detailed oral and visual presentations using a variety of media. Technology is integrated to include audio, video and graphic representations of vocabulary and concepts.	

Special Education

Under Massachusetts Special Education law and the Federal I.D.E.A., a free and appropriate public education is guaranteed to all students eligible for special education. The services of highly qualified staff to assess individual student needs are required, and when a child is found to be eligible, an individualized educational program is developed and, upon receipt of a parent/guardian signature, is implemented. In meeting these requirements, the following programs and services are available at Stoneham High School or made available through other placements and/or other outside agencies.

The Special Education Department provides services of highly qualified Special Education teachers for students with disabilities. Educational support personnel are also available to assist students on an as needed basis. The services are provided for eligible students with disabilities and require specially designed instruction in order to access the curriculum. The Special Education Staff also provides consultation and in-class instruction.

Learning Strategies classes provide the services of highly qualified Special Education teachers to work on individualized underdeveloped skills related to a disability. This program allows special education students to complete academic requirements for high school graduation according to their own abilities as identified on their individualized educational programs within major subject areas.

The Stoneham High School Special Education Department provides STRIDE (Students Taking Responsibility in Developing Excellence) Program for students who require therapeutic support throughout or for some of their day. The STRIDE Program primarily supports students with emotional disabilities while providing curricula taught by teachers in both a co-taught and small-group setting.

The Stoneham High School Special Education Department provides RISE (Reaching Independence through Structured Environments) Program for students who require a highly modified academic curriculum with a focus upon daily living skills, vocational skills and job skills. Services are provided as indicated on each student's Individualized Educational Program.

The Language-Based Learning Program offers an inclusive approach to students with language-based learning disabilities. These include disabilities in the areas of reading, writing and communication. Students are taught with a general education teacher and a certified special educator.

The Stoneham Public School System offers the following related services for special education students including: speech and language therapy, transition, occupational therapy, physical therapy, adaptive physical education, social work, emotional behavior support, psychological support, emotional/behavioral support, social pragmatics, and applied behavior analysis services. Reading services, speech/language therapy and counseling are provided on an individual basis.

For further information, please call the Special Education Office (781) 279-3810 x 1341.