

Framingham High School



**Program of Studies
2024-2025**

FRAMINGHAM HIGH SCHOOL 2024-2025 PROGRAM OF STUDIES

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Framingham High School's Mission, Vision, and Policies

Mission Statement

The mission of Framingham Public Schools, a system that understands and values our diversity, is to educate each student to learn and live productively as a critically thinking, responsible citizen in a multicultural, democratic society by providing academically challenging instructional programs taught by highly-qualified and diverse staff and supported by comprehensive services in partnership with our entire community.

Framingham High School will provide students with a comprehensive, challenging and diverse learning environment, which will enable our students to become successful members of the global community.

Expectations for Student Learning

ACADEMIC

Students at Framingham High School will:

- Write and speak clearly and effectively
- Read actively and critically
- Listen actively and effectively
- Demonstrate research skills by finding and using information efficiently, critically, and ethically
- Use technological tools and resources effectively
- Understand and apply interdisciplinary problem solving skills

CIVIC/SOCIAL

Students at Framingham High School will:

- Promote a school community that values human differences and challenges stereotypes
- Work collaboratively
- Participate in activities that connect the school with the local and global community
- Maintain standards of academic and intellectual integrity, responsibility, and honesty
- Understand and pursue general wellness

Vision of the Graduate

Respond thoughtfully and collaboratively

Improve the school and community

Skillfully communicate

Effectively articulates thinking

Utilize resources strategically

Persevere in facing challenges

RISE UP!

Accreditation Statement

Framingham High School is accredited by the New England Association of Schools and Colleges, a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post graduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the Association at 209 Burlington Road, Bedford, Massachusetts 01730, telephone number (781) 271-0022

Non-Discrimination Policy

The Framingham Public Schools does not discriminate on the basis of sex in the educational programs or activities which it operates and is required by Title IX not to discriminate in such a manner. In addition, no child shall be excluded from or discriminated against in admission to a public school or in obtaining the advantages, privileges, and courses of the study of such public schools on account of race, color, sex, religion, sexual orientation, national origin or disability.

Introduction to the Program of Studies

Welcome to the Framingham High School Program of Studies! The years you spend at Framingham High School (FHS) can help open doors to your future by exposing you to a wide variety of courses. We take great pride in being a comprehensive high school that has many opportunities/choices to offer every student.

It is important that you make thoughtful choices about your course selections so you can meet the goals you want to achieve in your time here. Use this guide to understand the opportunities available to you here at FHS. Inside, you will find key information regarding the FHS graduation requirements. There are also helpful materials regarding scheduling and course selection, including descriptions of the many courses offered. Finally, there are sections devoted to special programs and college standards.

Your school counselor is available to advise you on your four-year program planning and all aspects of this Program of Studies. Framingham High consists of 6 Houses: Gold House, Green House, Blue House, Silver House, Student Success Academy, and Welcome Academy. Each house has a Vice Principal as well as student support staff which includes guidance counselors and social workers to guide students along their educational experience. Students are assigned to houses based on language needs, engagement in our work study program, or alphabetically.

The relationship that grows between the student and the counselor is the paramount factor in guidance. We strongly encourage students to access this service as counselors work with students on college and career planning, decision-making, selection of the academic program, personal and developmental issues, and referrals. Contact with counselors may be established via phone, e-mail, or through the House Offices Managers. In terms of course selection, it is important to note that counselors serve as students' advocates. Each child's counselor has an overall view of the student's educational history, current level of achievement, goals and aspirations.

FHS Graduation Requirements

A Framingham High School diploma is awarded in recognition of the completion of the academic requirements described below. The diploma also signifies that the student has, in the opinion of the School Committee, achieved standards of conduct during the period up to and including the time of graduation that will include him/her as a successful graduate of the Framingham Public Schools. At the request of the FHS Principal, these requirements shall be reviewed by the School Committee. A minimum of 22 credits is required for graduation. During the senior year (Grade 12), full-time students must pass a total of 5 credits for graduation. The following class requirements must be met in order to graduate:

English (Successful completion of English I and II required)	4 credits
History and Social Sciences ¹ (Successful completion of Modern World History, USI and USII required)	3 credits
Mathematics	3 credits
Science	3 credits
World Languages ²	2 credits
Practical Arts ³	1 credit
Fine Arts ⁴	1 credit
Physical Education ⁵	1.5 credits
Health	0.5 credit

¹ History and Social Science mandated course requirements. Changes are due to alignment with the 2002 Massachusetts DOE Curriculum Framework.

² The World Language requirement may be waived when a Special Education student has recent psychological testing which identifies a language based learning disability and the IEP Team agrees that a waiver is in the best interest of the student.

³ Practical Arts includes all courses in Technology Education, Family and Consumer Sciences and Computer Sciences.

⁴ Fine Arts include all courses in Art, Music, Theatre, Humanities, and some courses in Graphics, Architectural Design, Photography, Video Production, Interior Design, and Fashion Design.

⁵ All students are required to enroll in at least one PE/Health course per year every year. Each semester course is worth .5 credit.

MASSACHUSETTS STATE UNIVERSITY SYSTEM AND UMASS MINIMUM ADMISSIONS REQUIREMENTS

The admissions standards for the state universities and UMass emphasize a strong academic high school background so that students enter college ready to learn. These standards represent minimum requirements; meeting them does not guarantee admission, since campus officials consider a wide range of factors in admissions decisions. Students shall have fulfilled all requirements for the high school diploma or its equivalent upon enrollment. It is important to note that admissions standards for the state's community colleges differ. Community colleges may admit any high school graduate or GED recipient.

The admissions standards for freshmen applicants have two main parts:

1. Sixteen* College preparatory courses distributed as below are required. (A course is equivalent to one full school year of study. Courses count toward the distribution only if passed.)* Effective with the college freshman class entering fall 2016, the number of required courses will increase to 17 with the additional year of math.
2. A minimum required grade point average (GPA) earned in college preparatory courses completed at the time of application.

Subject	Requirement for college freshman class entering...					
	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017 and beyond
English	4 courses					
Mathematics	3 courses (Algebra I & II and Geometry or Trigonometry or comparable coursework)				4 courses (Algebra I & II and Geometry or Trigonometry, or comparable coursework) including mathematics during the final year of high school	
Sciences	3 courses (drawn from Natural Science and/or Physical Science and/or Technology/ Engineering; including 2 courses with laboratory work); <i>Technology/engineering courses must be designated as science courses (taken for science credit) by the high school</i>				3 courses (drawn from Natural Science and/or Physical Science and/or Technology/ Engineering), including 3 courses with laboratory work	
Social Sciences	2 courses (including 1 course in U.S. History)					
Foreign Languages	2 courses (in a single language)					
Electives	2 courses (from the above subjects or from the Arts & Humanities or Computer Sciences)					

NCAA REQUIREMENTS FOR STUDENT ATHLETES

Students who plan to participate in varsity athletics at a National Collegiate Athletic Association Division I or II institution must satisfy the following requirements:

1. Graduate from high school.
2. Earn the equivalent of a C average in a core curriculum of sixteen college preparatory courses. These courses must be completed before graduation.
3. Earn the ACT/SAT score matching your core-course GPA on the NCAA sliding scale. (Minimum SAT scores are 900 for Division I or 840 for Division II).

Students who have these aspirations should check in with their school counselors and complete the NCAA Eligibility Center registration process by the end of their sophomore year.

Courses that meet the Practical and Fine Art requirement for graduation
(credits in parenthesis)

Practical Arts	Fine Arts	Either
<p><u>TECHNOLOGY EDUCATION</u> AP Computer Science Principles (1) Innovation Incubator H (.5) Business Management ACP (.5) Marketing Principles ACP (.5) Accounting H (.5) Finance H (.5) Computer Gaming ACP (.5) Construction Technology (.5) Construction Technology Part 2 (.5) Digital Graphics 3 ACP (.5) Digital Photography 3 ACP (.5) Electronics 1 ACP (.5) Electronics 2 ACP (.5) Engineering Drawing & Design 1 ACP (.5) Engineering Drawing & Design 2 ACP (.5) Robotics (.5) ACP Video Production 4 H(.5) Web Design/HTML ACP (.5)</p> <p><u>FAMILY & CONSUMER SCIENCE</u> Advanced Culinary Skills ACP (.5) Advanced Clothing ACP (.5) Child Growth & Development ACP (1) Clothing 1 (.5) Early Childhood Education HON (1) Foods 1 ACP (.5) Intro to Healthcare Careers ACP (.5) Infant & Toddler Care (1) Psychology for Living ACP (.5) World Foods ACP(.5)</p> <p><u>HEALTH AND PE</u> Sports Psychology ACP (.5)</p> <p><u>MATHEMATICS</u> Intro to Programming ACP/ H (.5) AP Computer Science (1) AP Computer Science Principles (1)</p> <p><u>AP CAPSTONE</u> AP Seminar</p>	<p><u>ART</u> Painting & Drawing ACP (.5) Painting 2 ACP (.5) 2D Art (.5) Studio Art HON (1) AP Studio Art and Design (1)</p> <p><u>DANCE</u> Introduction to Dance ACP (.5) Advanced Dance and Choreography ACP (.5)</p> <p><u>MUSIC</u> AP Music Theory (1) Band ACP (1) Guitar ACP (.5) FHS Chorus ACP (1) Freshman Band (1) Orchestra ACP (1) Piano/Keyboard I ACP (.5) Piano/Keyboard II ACP (.5)</p> <p><u>THEATER</u> Acting 1 ACP (.5) Acting 2 ACP (.5) Musical Theater 1 ACP (.5) Musical Theater 2 ACP (.5) Theater for Young Audiences ACP (.5) Theater for Social Change ACP (.5) Acting & Play Study HON (1)</p>	<p><u>TECHNOLOGY EDUCATION</u> Architectural Design 1 ACP (.5) Architectural Design 2 ACP (.5) Digital Graphics 1 ACP (.5) Digital Graphics 2 ACP (.5) Digital Photo 1 ACP (.5) Digital Photo 2 ACP (.5) Video Production 1 ACP (.5) Video Production 2 ACP (.5) Video Production 3 H (.5)</p> <p><u>ART</u> 3D ART ACP (.5) 3D ART 2 ACP (.5) Ceramics I ACP (.5) Ceramics 2 ACP (.5) Ceramics 3 ACP (.5) Engineering by Design HON (1) Photo 1 ACP (.5) Photo 2 ACP (.5) Photo 3 ACP (.5)</p> <p><u>THEATER</u> Advanced Acting HON (1)</p> <p><u>FAMILY & CONSUMER SCIENCE</u> Fashion Design ACP (.5) Interior Design ACP (.5) Advanced Interior Design ACP (.5)</p>

Scheduling

Course Selection: Planning an educational program is an ongoing process and should involve as many people as possible, including the student, parents, teachers and school counselors.

1. Attend the Curriculum Night for Parents and Students which will be made available Jan. 25th, 2024

This is held in mid-winter for the purpose of providing information and assistance in the course selection process. Department chairs, teachers, counselors and administrators will be on hand to answer questions and provide insight based on past experience.

2. Gather Information -This course selection booklet has been prepared with the student in mind. Read it first to obtain information on the entire high school curriculum, and then go back to obtain specific information on those courses which are either required for next year or those which you might choose for an elective.

Your classroom teacher has in-depth knowledge of the content of various courses taught within the department. In addition, the teacher is usually aware of the level of expectation within each course. By knowing you as a student and the kind of work of which you are capable, your teacher can make the best recommendations as to which courses to take within the department.

It is the student's responsibility to review the courses listed in this Program of Studies and fill out their course request sheet. Support with the course selection process will be provided by school counselors during the spring semester.

All students will be able to view their recommendations in X2 by Mar. 4, 2024.

School counselors have a broad overview of the entire curriculum and knowledge of the courses required to fulfill graduation requirements. School counselors are also able to advise students on the types of courses that will be helpful in terms of post-secondary plans. As such, all current Grade 10 and Grade 11 students are responsible for scheduling a 20-minute, individual appointment with their school counselor to review, discuss, and finalize their course requests. Counselor appointment books are available at: www.framingham.k12.ma.us/fhsschoolcounseling and students may make their appointment for any available time slot from March 4, 2024 through April 3, 2024.

In preparation for their appointment, it is imperative that students review this Program of Studies to research electives of interest. Please note that students who meet with their school counselor earlier in the time frame do not receive any preferential benefit, as course requests for all students are put through simultaneously at a later date. However, we encourage Grade 10 and Grade 11 students to sign up for a counselor appointment as soon as possible so that they will have ample time to complete the process before the Apr. 4, 2024 deadline. Current 9th grade students will complete their course selection meetings in a 9th grade counseling lesson in April.

Please be aware that not all choices for course selection can be accommodated because of scheduling constraints and school placement policies.

3. Work Together to Select Courses - Course selection marks the beginning of responsible decision-making for many students. Our hope is that students will take accountability for making their own choices while parents and guardians provide help and direction in the overall process.

The Course Selection Process is a cooperative venture among the student, the parent, the teacher, and the counselor. It is expected that when these course selections are made, the student will have the fortitude to adhere to the decision. Teachers and material resources are committed to classes based on student course requests. Teacher recommendations are a thoughtful process based on student performance in the current class. Students must also be aware of the academic eligibility policy and be in compliance with this policy to participate in co-curricular activities.

The Honors, Advanced College Prep, and College Prep levels are differentiated by the degree of difficulty, intensity of study, and pace.

Course levels are designated as follows:

- **Advanced Placement (AP):** These courses present challenging college-level curriculum material and require significant independent learning. Students will be expected to think critically, creatively, and analytically. These rigorous courses will follow the syllabi approved by the College Board. *Students are expected to register for and complete the corresponding Advanced Placement exam in May. Students not enrolled in an AP course offered at Framingham High School are not permitted to take the AP exam in that course without written permission of the Department Head and Vice Principal. The College Board Advanced Placement Program requires students to commit to taking AP Exams by early November, at which time payment will be collected at Framingham High School. In the event that a student decides not to take the exam, withdraws from the class, or adds an AP class after the November deadline, an additional fee is incurred.*
- **Dual Enrollment (DE):** These courses are taught by a college professor or co-taught with an FHS faculty member. Students who successfully take a dual enrollment courses will earn college credit from either Framingham State University or MassBay Community College depending upon who sponsors the course. Most of our dual enrollment courses are offered through our partnership with the College Planning Collaborative and students are members of the MetroWest Early Scholars (MWES) program. If you are interested in joining this program, please see your guidance counselor.
- **Honors (HON):** These courses present challenging standards-based curriculum material and require independent learning. Students will be expected to think critically, creatively, and analytically.
- **Advanced College Prep (ACP):** These courses present challenging standards-based curriculum material and require high-order thinking skills. Students will be expected to show a capacity for independent learning and strong academic skills
- **College Prep (CP):** These courses present challenging standards-based curriculum material and require high-order thinking skills with scaffolded supports. Students will be expected to strengthen their independent learning and academic skills.
- **Unleveled (U):** These courses present challenging standards-based curriculum that build specific skills and content through activity-based instruction. These courses are not factored into GPA. Self-contained Special Education courses are also unleveled and offer specially designed instruction.

Course Level Overrides (current high school students only):

During the Course Selection Process, students and parents who are considering an override to a higher leveled course (ie ACP to Honors) must understand the increased expectations, commit to these expectations, and seek help from the teacher as needed. To initiate the course override process, students must be earning a grade of B or higher in the current subject. After the override process is completed during course selection, no course overrides will be permitted. However, students may engage in the level change process the following academic year. Please see the level change process for more information. Students must also be aware of the academic eligibility policy and be in compliance with this policy to participate in co-curricular activities. *The course override form will be made available as part of the course selection process to current high school students **only**.*

Course Level Overrides (incoming 9th graders):

Incoming 9th graders will **not** be permitted to complete a course override to a higher leveled course. 8th Grade teachers can modify their recommendation based on student progress during the second semester. Once in 9th grade, students can initiate a level change after 1st Term Progress reports if the student is earning a B or higher in the 9th grade subject.

Level Changes: Students requesting a level change must stay in the leveled subject until 1st Term Progress Reports. A level change form must be completed for any level changes that occur during the school year. The link to the [Level Change Form can be found here.](#)

- Level changes can only occur at the start of a new term **if space is available.**
- When a student requests to change a level (AP, Honors, ACP, CP) after starting a course, the academic grades and attendance records from the initial course automatically transfer directly to the subsequent course placement.
- Exception: If the level change is driven by the teacher or if the teacher feels a student is misplaced, the teacher will communicate the need for a level change to the student, parent/guardian, counselor and Department Head.

Add/ Drop Period: Students will be permitted to make changes to their schedule during the first full cycle of the academic year **only**. Changes permitted during the add/drop period include:

- Modifications needed to fulfill graduation requirements
- Filling “un- scheduled periods”
- Adding a TA, Independent Study, or ADC to their schedule
- Changes to electives based on priority requests and availability in the student’s schedule.

Please Note: During the Add/Drop period, level changes are not permitted.

Course Withdrawals: In the event that extenuating circumstances necessitate a student withdrawing from a course, the student will not receive credit. A student withdrawing from a course after Term 1 Report Cards will receive a W on the Report Card.

GRADING SYSTEM

Grade	Numerical Equivalent	Grade	Numerical Equivalent
A+	4.3	C+	2.3
A	4.0	C	2.0
A-	3.7	C-	1.7
B+	3.3	D+	1.3
B	3.0	D	1.0
B-	2.7	D-	1.0
		W	

Interpreting letter grades

- A: This grade is received by students who demonstrate superior achievement in the attainment of course objectives.
- B: This grade is received by students who consistently meet the objectives of the course.
- C: This grade is received by students who have demonstrated an acceptable level of achievement for the course objectives with some demonstrable deficiency in performance.
- D: This grade represents a deficiency in student achievement. While credit is awarded, a final grade of D indicates a minimal and unsatisfactory level of achievement for the course objectives.
- P: This grade is used in circumstances where standard grading practices do not apply. Credit is awarded.
- F: This grade indicates that the student had failed to meet the minimum objectives of the course. No credit is awarded for this final grade.
- I: This grade indicates that the student must complete some assignment(s) in order to receive a grade for credit. It is expected that the teacher provides a firm timetable to complete the missing work in order to earn credit.
- W: This grade indicates that the student withdrew from a course after the first term marking period..

Class Rank: Rank is reported in percentile bands (top 5%, 10%, etc.) and is based on weighted GPA.

Course Level	Transcript Designation	GPA Factor
Advanced Placement	AP	+0.75
Honors	HON	+0.50
Advanced College Prep	ACP	+0.25
College Prep	CP	+0
Unleveled	U	Not included in GPA
College/Dual Enrollment	College	Not included in GPA unless co-taught by FHS teacher

Courses Taken Outside of Framingham High School

There are times when a student wants to pursue a course outside of the traditional school day or school year. If a student is interested in a course the following steps must be taken PRIOR to the student registering for the course:

1. The student must meet with their school counselor to discuss the reasoning behind taking the course
 - a. It is important to note that a summer course cannot be used to accelerate through and/or take the place of a course offered at Framingham High School
 - b. Any class that a student is considering cannot be already offered through Framingham High School
 - c. Classes must be taken at an accredited higher education institution or secondary school

2. Once the school counselor confirms that the class meets the above criteria, both the Department Head as well as the Principal must approve the course. This would allow a course to appear on a student's official FHS transcript. Please be aware of the following:
 - a. While it can be used for credit towards their 22 credit total, it will not be factored into the student's GPA.

Framingham High School Rubrics

Used for Learning Assessment

LISTENING

<u>Learning Standard</u>	<u>Notations</u>
Makes a rudimentary response	
Requests clarification	
Paraphrases to check understanding	
Expresses feelings and ideas	
Displays a willingness to incorporate new ideas objectively	
Analyzes, compares and contrasts information	
Draws conclusions, makes judgments based on the analysis of facts	

SPEAKING

<i>Criteria</i>	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Demeanor	Polished delivery	Confident and at ease	Shy, but makes an adequate presentation	Nervous, reticent, hesitant to the degree that it distracts the audience
Content	Full development, exhibiting unique or creative use of material	Full comprehension of subject matter; logical presentation' appropriate length	Understanding of subject matter. Presentation is organized	Lack of understanding of the subject matter, poorly organized, inappropriate length
Delivery	Spirited, passionate, and vivid use of language	Volume and rate are clear and appropriate	Either volume or rate is inadequate	Volume and rate are inadequate (i.e. too fast or too slow)
Rapport with Audience	Excellent eye contact; clear, dynamic and highly engaging	Consistent eye contact; focused delivery	Some eye contact and enthusiasm	No eye contact; little enthusiasm

READING

Criteria	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Word Analysis Vocabulary Acquisition (decoding strategies including phonics, prior knowledge, structure, and context)	Reads fluently. Understands literal and interpretive grade/language proficiency level vocabulary.	Successfully decodes most grade/language proficiency level vocabulary and creates meaning for key concepts.	Relies on only one decoding strategy and is unable to identify key words and concepts.	Demonstrates no effective strategies for decoding.
Connecting (relating text to	Uses personal experiences and/or	Uses personal experiences and/or	Relates background knowledge/experience	An irrelevant, non-textual connection.

one's knowledge, personal experience or other texts)	outside materials to make insightful connections related to the topic or theme. Connection and aid to comprehension is explained.	outside materials to make thoughtful connections, related to information. Connection is explained.	to text. May include superficial connections unrelated to theme or topic.	
Predicting (thinking about what one knows, using text features to make predictions about what the text is about)	Develops predictions, interpretations, and/or conclusions about the text that include connections between the text and the reader's background knowledge of ideas and beliefs. Explains how predicting enhances comprehension.	Draws conclusions and/or makes predictions and can explain the source of the conclusion or prediction.	Draws conclusions or makes predictions that are consistent with text or background knowledge.	Attempts a prediction or conclusion. Prediction is inaccurate or unsubstantiated with textual information.
Questioning (generating questions before, during and after reading)	Poses and answers questions to enhance the meaning of text. Explores the ideas and/or issues in the text. Can explain how posing and answering questions deepens comprehension	Asks questions to clarify understanding and indicate higher level of thinking.	Asks questions that refer to literal aspects of the selection.	Asks questions that are inappropriate for the selection.
Summarizing (the process of determining important events or information into a central theme or idea)	Identifies multiple key ideas/concepts/events	Identifies at least one key concept as important in overall text meaning, and clearly explains why by citing support, and/or text structure.	Identifies part of the important information, or just lists facts without explanation.	Random guessing, inaccurate attempt to identify important information from the text.

Inferring (using what is stated in a text in order to interpret what is implied)	Develops interpretations and/or conclusions about the text that include connections between the text and the reader's background knowledge or ideas and beliefs. Can explain how the inference enhanced comprehension.	Draws conclusions and/or creates interpretations and can explain the source.	Draws conclusions or creates interpretations that are consistent with text or background knowledge.	No response/inference or inaccurate response or unsubstantiated with text information.
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WRITING

Criteria	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Thesis/Hypothesis and Focus	Unique thesis/hypothesis clearly stated. Focus evident throughout.	Thesis/hypothesis clearly stated. Focus evident but contains some extraneous information.	Thesis/hypothesis poorly developed, limited and/or vague. Focus is unclear.	No clear thesis/hypothesis. Lacks focus.
Organization and Transition	Clear, logical, well-planned organization with effective transitions.	Organization is evident but not consistent. Transitions are used.	Inconsistent organization. Ineffective transitions.	Lacks organization. Little to no evidence of transitions.
Support, Elaboration, Evidence and Analysis	Specific and sufficient examples and details support thesis/main idea. Interpretation of	Most examples and details support thesis/main idea. Interpretation of evidence	Some examples and details support thesis/main idea. Interpretation of	Most examples and/or details do not support thesis/main idea.

	evidence leads to logical and unique conclusions.	leads to logical and obvious conclusions.	evidence leads to faulty conclusions.	Illogical and/or no conclusions.
Word choice, Language, Tone	Effective and rich choice of language including content specific vocabulary. Language appropriate for intended audience or task.	Appropriate choice of language and content specific vocabulary. Evidence of awareness of audience or task throughout most of the work.	Limited choice of appropriate language and content specific vocabulary. Limited awareness of audience or task.	Inappropriate and vague choice of language and content specific vocabulary. Little to no awareness of audience or task.
Mechanics and Usage (grammar, spelling, sentence structure) Proofreading	Mechanics are correct. Sentences patterns are varied. Proofreading has resulted in effective editing and revision.	Mechanics are mostly correct; errors do not affect comprehension. Sentences are complete, and show variation in structure. Proof-reading shows evidence of editing with some revision.	Mechanical errors are evident. Some sentence fragments and/or run-ons. Word choice is not always acceptable. Proofreading shows evidence of some editing, but no revision.	Frequent mechanical errors that confuse the reader. Sentences are mostly fragments or run-ons. Word choice is vague Evidence of lacking.

PROBLEM SOLVING

Criteria	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Understanding the problem	Demonstrates a superior understanding of multiple facets	Demonstrates basic understanding	Demonstrates partial understanding	Demonstrates no understanding of problem
Choosing and implementing a solution strategy	Chooses a correct strategy that addresses multiple facets of the problem both obvious and subtle	Chooses a correct strategy that effects many aspects of the problem	Chooses a strategy that does not effectively address all elements of the problem	Unable to begin to solve problem, or uses totally inappropriate strategy
Arriving at a solution	Resolves all aspects of the problem	Resolves the overall problem	Achieves partial resolution	Incorrect resolution
Explanation of resolution	Gives a clear, sequential explanation that addresses both the obvious and subtle aspects of the problem	Gives a clear sequential explanation that omits some subtle aspects of the problem	Gives an incomplete explanation	Unable to explain

INFORMATION LITERACY

Criteria	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Formulates questions based on identified information needs	Revises, adds and deletes questions as information needs change	Poses both broad and specific questions to help in finding information	States only broad questions	Unable to pose a question or poses one broad question
Locates and uses information sources	Locates and uses a full range of electronic, print and other sources to meet differing information needs	Locates and uses information from a variety of electronic, print and other sources (including primary and secondary) to meet an information need	Locates and selects information from only one or two appropriate sources to meet an information need	Unable to locate or select information from an appropriate source to meet an information need

Evaluates information	Supports judgments of relevance, accuracy currency and completeness of information sources in relation to a range of topics and information needs; supports judgments of inaccurate misleading or biased information	Compares and contrasts information sources to determine which are more relevant, accurate, current and complete; distinguishes between fact and opinion; recognizes inaccurate, misleading or biased information.	Recognizes relevance of a source to an information need	Unable to determine relevance of a source to an information need
Applies information	Integrates previous knowledge with information from a variety of sources to create new meaning. Demonstrates flexibility in organizing and presenting information for a variety of purposes or audiences.	Draws conclusions by combining what is already known about a topic with new information. Organizes and presents information in a way that is appropriate for a purpose or audience.	Recognizes and understands new information and ideas Understands multiple ways to organize information (e.g. chronological, topical, hierarchical)	Does not recognize or relate new information to previous knowledge or experience Unable to organize information gathered from one or more sources
Respects information sources	Acknowledges intellectual property rights (copyright, trademark, etc.)	Avoids plagiarism; determines when to directly quote or paraphrase information; follows MLA format to cite sources	Recognizes the need to cite sources; attempts to follow MLA format	Copies material directly from source without citation

TECHNOLOGY

<i>Criteria</i>	4	3	2	1
	Always	Usually	Sometimes	Never/Not Observed
Use of computers	Consistently selects appropriate hardware and software tool for the task	Alternates between multiple applications within a project	Demonstrates file management skills	Uses efficient keyboarding techniques
Computer applications	Imports/exports and links data between various applications	Uses basic functions of software such as database, spreadsheet and graphics	Effectively uses a variety of search engines	Uses necessary features of word processing
Responsible use of technology	Evaluates all electronic sources for validity and accuracy	Consistently cites electronic sources correctly	Demonstrates appropriate use and care of software and hardware	Observes the district's "Acceptable Use Policy"
Use of computers to communicate	Creates a multimedia presentation, desktop published report or web page incorporating data from several sources	Collects, organizes, analyzes, and graphically presents data	Expresses ideas with graphics, photos, and other digital media	Utilizes a variety of web sites for research and communication
Use of technologies for content	Effectively uses a variety of technologies	Uses one or two technologies independently	Uses technology with peer or teacher assistance	Unable to use technology

***Note: In order to attain a higher level, evidence of previous skill must be demonstrated.**

Summer School

At Framingham Summer School, students are able to take selected courses for either original or make-up credit. In order

to receive make-up credit for a course, a student needs to have completed the full course during the school year. If a student does not meet basic course requirements, such as writing a research paper, the teacher reserves the right not to recommend summer school. Students who have over 25 class absences may not be eligible for summer school due to the amount of missing content.

Accelerated Graduation

It is the policy of the Framingham School Committee that: Upon the written request of a student and with the approval of the student's parents/guardians, school counselor and appropriate grade administrator, a junior may be considered for early graduation at the completion of his/her junior year if he/she has been accepted to an institution of higher learning or actively employed, engaged in independent study or some form of acceptable community activity. If a junior meets the above criteria and has completed the requirements for the diploma, the School Committee will, upon recommendation of the Superintendent of Schools, award the diploma. Any student who has completed three years of high school and has been accepted to an institution of higher learning but who has not met all the requirements for the diploma, with the approval of his/her parents, school counselor and appropriate administrator may request that the School Committee accept the successful completion of the first year of post-secondary study as the equivalent of the fourth year of high school. The diploma will be awarded at that time. There are a number of alternative methods for students to pursue early graduation. Students who are interested in pursuing this option should meet with their school counselor to create a plan.

Departments

Department Heads

Department	Department Head	Phone Extension	Email	Office
English	Mr. Eliot	27617	peliot@framingham.k12.ma.us	E213
English as a Second Language	Ms. DeSouza	27481	vdesouza@framingham.k12.ma.us	D110
Fine & Performing Arts	Mr. Brindley	27770	cbrindley@framingham.k12.ma.us	H108
Health and Physical Education	Mr. Foley	27513	mpfoley@framingham.k12.ma.us	
History & Social Science	Ms. Sequenzia	27485	msequenzia@framingham.k12.ma.us	E213
Mathematics	Ms. Fitterer	27599	mfitterer@framingham.k12.ma.us	B202
Science	Mr. Sirpenski	27730	dsirpen@framingham.k12.ma.us	B202
Family & Consumer Science	Ms. Barnes	27760	lbarnes@framingham.k12.ma.us	F112
Technology Education	Mr. Erbland	27566	perbland@framingham.k12.ma.us	K002
6-12 Dual Language Extension Program	Ms. Espinoza	508-626-9181 x125	gespinoza@framingham.k12.ma.us	Walsh Middle School
World Languages	Ms. Jones	27740	cjones@framingham.k12.ma.us	A201

Bilingual, ESL, and Sheltered English Programs

Veronica DeSouza, Department Chair

Sequence of Courses

SLIFE	ESL Level 1 (Beginner)	ESL Level 2 (Intermediate)	ESL Level 3 (Advanced)
English Language and Literature SLFA English Language and Literature SLFB and Literacy in STEM SLFA Literacy in STEM SLFB	English Language and Literature 1A English Language and Literature 1B and Literacy in STEM 1A Literacy in STEM 1B	English Language and Literature 2A English Language and Literature 2B and Literacy in STEM 2A Literacy in STEM 2B	Advanced Language and Composition 3A or Advanced Language and Composition 3B
Bilingual Content Classes	Bilingual Content Classes Grade 9 and 10 only	SEI Content Classes (2A only)	SEI Content Classes
Portuguese/Spanish Modern World History Spanish Pre-Algebra Portuguese/Spanish Biology	Portuguese/Spanish Modern World History Portuguese/Spanish Geometry Portuguese/Spanish Biology	ESL Biology ESL Modern World History ESL Geometry ESL US History 1	
Electives	Electives	Electives	Electives
Academic Spanish ESL MCAS Prep	Strategies for Academic Success Portuguese Language and Literature 1 Portuguese Language and Literature 2	Portuguese Language and Literature 1 Portuguese Language and Literature 2	Portuguese Language and Literature 1 Portuguese Language and Literature 2

BILINGUAL, ESL AND SHELTERED ENGLISH PROGRAM

Course Descriptions

ESL courses are aligned to Massachusetts Department of Elementary and Secondary Education and WIDA standards.

800 Advanced Language and Composition 3B

Level: ACP

Credits: 1.0

This course is intended for students at the expanding and bridging WIDA English proficiency level. Students will continue to build advanced competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing and speaking. Students will receive ELA support, conduct research for informational papers and write different types of essays to develop their research, grammar and writing skills. Representative texts may include Esmeralda Santiago's *When I was Puerto Rican*, and F. Scott Fitzgerald's *The Great Gatsby*. This course addresses both WIDA and ELA standards.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit

803/818 Literacy in STEM 1A

Level: ACP (803) or Honors (818)

Credits: 1.0

This course is designed for emergent bilingual students at the entering WIDA English proficiency level. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. State WIDA and ELA standards for reading and writing nonfiction texts are emphasized.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 805 or 806)

805SLF Literacy in STEM SLIFE A

Level: CP

Credits: 1.0

This course is designed for SLIFE emergent bilingual students at the entering WIDA English proficiency level who have substantial education gaps. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. Foundational literacy and math skills will be developed. Students receive extra support academically and personally.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 807SLF)

807SLF English Language and Literature SLIFE A

Level: CP

Credits: 1.0

This course is designed for SLIFE emergent bilingual students at the entering WIDA English proficiency level who have substantial education gaps. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking. Foundational literacy skills will be developed. Students receive extra support academically and personally.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 805SLF)

805/806 English Language and Literature 1A

Level: ACP (805) or Honors (806)

Credits: 1.0

This course is intended for emergent bilingual students at the entering English WIDA proficiency level. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking. Literary elements such as character, plot, setting, conflict, and theme are covered through fiction, short stories, drama and poetry. Fiction may include texts by authors such as by O. Henry, Jack London, and Sandra Cisneros. This course addresses both WIDA and ELA standards.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 818 or 803)

808/809 Literacy in STEM 1B

Level: Honors (808) and ACP (809)

Credits: 1.0

This course is intended for students at the entering WIDA English proficiency level. Students continue to develop competency in social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. State WIDA and ELA standards for reading and

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 810 or 811)

writing nonfiction texts are emphasized.

809SLF English Language and Literature SLIFE B

Level: CP

Credits: 1.0

This course is designed for SLIFE emergent bilingual students at the entering English WIDA proficiency level who have substantial education gaps. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking. Foundational literacy skills will continue to be developed. Students receive extra support academically and personally.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 813SLF)

810/811 English Language and Literature 1B

Level: Honors (810) or ACP (811)

Credits: 1.0

This course is intended for students at the entering WIDA English proficiency level. Students continue to develop competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing, and speaking. A variety of genres including novels, short stories, nonfiction, poetry, and drama will be covered. Representative texts may include Mary Shelly's *Frankenstein*, Shaun Tan's *The Arrival*, Kate DiCamillo's *Because of Winn Dixie*, and a collection of poems. This course addresses both WIDA and ELA standards.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 808 or 809)

813SLF Literacy in STEM SLIFE B

Level: CP

Credits: 1.0

This course is designed for SLIFE emergent bilingual students at the entering WIDA English proficiency level who have substantial education gaps and a more advanced beginning level of English comprehension. Students will be introduced to social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. Foundational literacy skills will continue to be developed. Students receive extra support academically and personally

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 809SLF)

814/815 Literacy in STEM 2A

Level: Honors (814) or ACP (815)

Credits: 1.0

This course is designed for emergent bilingual students at the beginning WIDA English proficiency level who possess an intermediate level of English comprehension in both written and oral work. Students will continue to develop social and academic vocabulary and build communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. State WIDA and ELA standards for reading and writing nonfiction texts are emphasized.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 816 or 817)

816/817 English Language and Literature 2A

Level: Honors (816) or ACP (817)

Credits: 1.0

This course is intended for students at the beginning WIDA English proficiency level. Students will continue to practice and develop competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing, and speaking. Genres of novel and nonfiction with increasing complexity will be covered. Representative texts may include Sandra Cisneros' *House on Mango Street*, Charles Dickens' *A Christmas Carol*, and Malala Yousafzai's *I Am Malala*. This course addresses both WIDA and ELA standards.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit (concurrent with 814 or 815)

820 Advanced Language and Composition 3A

Level: Honors (820) and ACP (821)

Credits: 1.0

This course is intended for emergent bilingual students at the developing and expanding WIDA English proficiency level. Students will continue to practice competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing and speaking. Students will develop skills for organization and expression in critical writing, personal essays and research. Representative texts may include Trevor Noah's *Born a Crime*, Lorraine Hansberry's *Raisin in the Sun*, and a collection of contemporary short fiction, nonfiction and personal essays. This course addresses both WIDA and ELA standards.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: English Credit

857/858 Literacy in STEM 2B
Level: ACP (857) or Honors (858)
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: English Credit (concurrent with 860 or 859)

This course is designed for emergent bilingual students at the developing WIDA English proficiency level. Students will continue to practice and develop competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing, and speaking in the context of STEM content themes. State WIDA and ELA standards for reading and writing nonfiction texts are emphasized.

859/860 English Language and Literature 2B
Level: ACP (859) or Honors (860)
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: English Credit (concurrent with 858 or 857)

This course is intended for students at the developing WIDA English proficiency level. Students will continue to practice competency in social and academic vocabulary and communicative skills across the four domains of listening, reading, writing and speaking. Students will explore genres of novels, nonfiction, drama, and poetry with increasing complexity. Representative texts may include George Orwell's *Animal Farm*, Reyna Grande's *The Distance Between Us*, and a collection of poems. This course addresses both WIDA and ELA standards.

Bilingual Content Classes

874 Spanish Pre-Algebra CP
Level: CP
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Math Credit

This course is a transitional bilingual education course for **SLIFE** students that is taught in Spanish and transitions into English. This course will cover basic math concepts as outlined in the DESE Mathematics Curriculum Standards. Students will learn problem solving, communicative properties, and reasoning to prepare them for algebra. Particular areas of emphasis include graphical displays of data; coordinate graphs, linear functions, solving linear equations and inequalities. (Course only offered to students in the SLIFE Program)

883 Spanish Biology ACP
Level: ACP
Credits: 1.0

Grade Level: 9 and 10
Prerequisites: None
Fulfills: Science Credit

This course is a transitional bilingual education course that is taught in Spanish and transitions into English. This course is a comprehensive introduction to the study of life. Students will learn through both classroom and laboratory interactions that introduce and investigate the major concepts of biology. Specific topics include biochemistry, cell structure and function, photosynthesis and cellular respiration, cell division, genetics, protein synthesis, evolution, ecology & human biology. Students will be prepared for the MCAS Biology Exam. Dissections are included.

890 Spanish Modern World ACP
Level: ACP
Credits: 1.0

Grade Level: 9 and 10
Prerequisites: None
Fulfills: History Credit

This course is a transitional bilingual education course that is taught in Spanish with special emphasis in developing the students' proficiency in English as well as increasing their knowledge of world history. Starting c. 1800, students will interpret and analyze the impact of 22 significant world events. The course revisits revolutions in Europe and the Americas and ends with a study of world affairs today, and will include units on the Enlightenment, industrialization, imperialism, totalitarianism, and the Cold War. The use of primary documents will be emphasized in attempts to understand historical events. Reports, research papers and outside readings will be required.

833s Spanish Geometry ACP
Level: ACP
Credits: 1.0

Grade Level: 9 and 10
Prerequisites: None
Fulfills: Science Credit

This course is a transitional bilingual education course that is taught in Spanish and transitions into English. This course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included along with inductive and deductive reasoning. Topics include angle relationships, transformations, triangles, area, similarity, circles, polygons, geometric solids, as well as an introduction to trigonometry.

841/891 Portuguese Modern World CP/ACP**Level: CP (841) or 891 (ACP)****Credits: 1.0**

This course is a transitional bilingual education course that is taught in Portuguese with special emphasis in developing the students' proficiency in English as well as increasing their knowledge of world history. Starting c. 1800, students will interpret and analyze the impact of significant world events. The course revisits revolutions in Europe and the Americas and ends with a study of world affairs today. Study will include units on the Enlightenment, industrialization, imperialism, totalitarianism, and the Cold War. The use of primary documents will be emphasized in attempts to understand historical events. Reports, research papers and outside readings will be required.

Grade Level: 9, 10**Prerequisites: None****Fulfills: History Credit****843 Portuguese Biology ACP****Level: ACP****Credits: 1.0**

This course is a transitional bilingual education course that is taught in Portuguese and transitions into English. This course and is a comprehensive introduction to the study of life. Students will learn through both classroom and laboratory interactions that introduce and investigate the major concepts of biology. Specific topics include biochemistry, cell structure and function, photosynthesis and cellular respiration, cell division, genetics, protein synthesis, evolution, ecology & human biology. Students will be prepared for the MCAS Biology Exam. Dissections are included.

Grade Level: 9, 10**Prerequisites: None****Fulfills: Science Credit****833p Portuguese Geometry ACP****Level: ACP****Credits: 1.0**

This course is a transitional bilingual education course that is taught in Portuguese and transitions into English. This course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included along with inductive and deductive reasoning. Topics include angle relationships, transformations, triangles, area, similarity, circles, polygons, geometric solids, as well as an introduction to trigonometry.

Grade Level: 9, 10**Prerequisites: None****Fulfills: Science Credit****ESL Content Courses**

Courses are aligned with the DESE Science and WIDA Standards

861 ESL Biology ACP**Level: ACP****Credits: 1.0**

This course is a comprehensive introduction to the study of life. Students will learn through both classroom and laboratory interactions that introduce and investigate the major concepts of biology. Specific topics include biochemistry, cell structure and function, photosynthesis and cellular respiration, cell division, genetics, protein synthesis, evolution, ecology & human biology. Students will be prepared for the MCAS Biology Exam. The lab activities may include dissections.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Science Credit****887 ESL Modern World ACP****Level: ACP****Credits: 1.0**

In this course emergent bilingual students interpret and analyze the impact of significant world events starting c. 1800. Study includes units on revolutions in Europe, the Americas, and Asia. The course also explores industrialization, imperialism, totalitarianism, world wars, and ends with a study of modern global issues. The development of historical thinking skills are emphasized in order to understand historical events and the world today.

Grade Level: 9**Prerequisites: None****Fulfills: History Credit****892 ESL US History 1 ACP****Level: ACP****Credits: 1.0**

This course is designed for emergent bilingual students who still need ESL language support and will place emphasis on the Constitution, citizens' rights, and the development of our democratic form of government so students may apply this knowledge to successfully function as citizens of the United States. This course represents a social, political, and economic survey of the United States before the arrival of Columbus and continuing to 1877. Units of study include sectionalism, westward expansion, urban development, and the formation of our democratic system. The forces shaping American thinking and society will be a focus. Reports, research papers and outside readings will be required.

Grade Level: 10, 11, 12**Prerequisites: None****Fulfills: History Credit**

833 ESL Geometry
Level: ACP
Credits: 1.0

Grade Level: 9, 10
Prerequisites: None
Fulfills: History Credit

This course, designed for emergent bilingual students who still need ESL language support. This course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included along with inductive and deductive reasoning. Topics include angle relationships, transformations, triangles, area, similarity, circles, polygons, geometric solids, as well as an introduction to trigonometry.

849 Portuguese Language and Literature I ACP
Level: ACP
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: Department Head Approval
Fulfills: World Language Credit

This course is taught in Portuguese and is designed for fluent Portuguese speakers. It provides an in-depth study of Portuguese language literature, grammar and composition. Students will prepare written assignments demonstrating understanding and involvement with the course content.

851 Portuguese Language and Literature 2 ACP
Level: ACP
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: Port Lang & Lit 1
Fulfills: World Language Credit

This course is taught in Portuguese and is designed for fluent Portuguese speakers. It covers the different literary periods in Brazil, from the colonial period to the present. Students will read several books and prepare written assignments and multimedia oral presentations that will demonstrate understanding of course content.

845 Academic Spanish Level 1 CP
Level: CP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: World Language Credit

This course is designed for Native Spanish speakers who need support in developing higher literacy in their native language and have gaps in their schooling. Higher literacy in one's native language serves as a foundation for pattern recognition, concepts, and usage for second language learning. Evidence has shown that the stronger a student is in their native language, the more readily they can learn another language. This course will develop the students' abilities in all areas of reading and writing and will help support them in learning English.

847 Academic Spanish Level 2 CP
Level: CP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: World Language Credit

This course is designed for Native Spanish speakers who need support in developing higher literacy in their native language and have gaps in their schooling. Higher literacy in one's native language serves as a foundation for pattern recognition, concepts, and usage for second language learning. Evidence has shown that the stronger a student is in their native language, the more readily they can learn another language. This course will develop the students' abilities in all areas of reading and writing and will help support them in learning English.

Bilingual Electives

872 ESL MCAS
Level: CP
Credits: .5

Grade Level: 11 and 12
Prerequisites: None
Fulfills: World Language Credit

This course is offered to emergent bilingual students offers support for students who need extra help preparing for the MCAS exam, or for those students who may need additional support with foundational ELA skills.

Dual Language Extension Program

Glenda B. Espinoza, Department Chair

The Dual Language curriculum promotes the development of bilingual, biliterate, and multicultural competencies in students. The student's ability to function in more than one language in today's interdependent world is a critical skill to acquire.

The 3 pillars of the Dual Language program are:

- Bilingualism and biliteracy
- High academic achievement
- Sociocultural competency

The program is designed for students who have participated in the Dual Language Program at Walsh Middle School. Any student requesting entrance or re-entry into the Framingham High School Dual Language Program will have to take a placement assessment that will include analysis of the student's listening, reading, writing and speaking skills. Once the assessment has been reviewed by the Dual Language team, families will be notified of the student's placement. There is no automatic re-enrollment.

Dual Language Program Sequence of Courses

9	10	11	12
185 Spanish Language and Literature 1 Honors	182 AP Spanish Language and Culture	187 Advanced Contemporary Spanish Literature Honors (Pre-AP)	192 AP Spanish Literature and Culture
186 Spanish Language and Literature 1 ACP	188 Spanish Language and Literature 2 Honors	182 AP Spanish Language and Culture	187 Advanced Contemporary Spanish Literature Honors (Pre-AP)
		183 Spanish 5 Honors	010s AP Seminar in Spanish
			182 AP Spanish Language and Culture

***Seniors in the program who need to fulfill requirements of 4 years of Spanish can also take this class with previous approval from the Dual Language Department Head. See the description in the World Language Section.

185 Spanish Language and Literature 1 H**Level: Honors****Credits: 1.0**

This course is primarily for students whose first language is Spanish and those continuing participation in the Dual Language Bilingual program. Honors students will work with Spanish Literature at an accelerated pace, focusing on different genres by a variety of authors. At the honors level, students must be able to independently comprehend challenging novels as well as writing with precision. All class work and assignments will be in Spanish only. Students will deepen their skills in complex grammatical structures and writing as well as fluency when presenting oral projects and in class discussions.

Grade Level: 9**Prerequisites: Completion of 8th with a B or better****Fulfills: World Language Credit****186 Spanish Language and Literature 1 ACP****Level: ACP****Credits: 1.0**

This course is primarily for students whose first language is Spanish and those continuing participation in the Dual Language Bilingual program. Students will read and discuss Spanish Language literary excerpts and novels at appropriate levels. They will continue to develop grammar and writing skills through compositions demonstrating understanding of the content. All class work and assignments will be done in Spanish. All students will be expected to participate fully in Spanish at all times.

Grade Level: 9**Prerequisites: Completion of 8th at the DLP****Fulfills: World Language Credit****188 Spanish Language and Literature 2 H****Level: Honors****Credits: 1.0**

This is an accelerated course primarily for students whose first language is Spanish and those continuing participation in the Dual Language Bilingual program. Honors students will work with Spanish Literature at an accelerated pace, focusing on different genres (drama, narrative, poetry) by a variety of Latin American and Spanish authors. At the honors' level students must be able to comprehend challenging novels independently and write with precision as well as fluency when presenting oral projects and class discussion. They will continue to develop skills in more advanced grammar and writing at a more sophisticated level. All class work and assignments will be done entirely in Spanish.

Grade Level: 10**Prerequisites: Spanish Lang & Lit 1H****Fulfills: World Language Credit****182 AP Spanish Culture and Language****Level: Advanced Placement****Credits: 1.0**

An in depth review and reinforcement of grammar, verbs and vocabulary through literature. This course is the equivalent of a third semester college course. It will follow the prescribed AP curriculum. Students will be prepared for and expected to take the AP examination in Spanish Language. As this course will be conducted entirely in Spanish, all students will be expected to participate fully in Spanish at all times. This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

Grade Level: 10, 11, 12**Prerequisites: Spanish Lang & Lit 1H or 2H****Fulfills: World Language Credit****187 Advanced Contemporary Spanish Literature****Level: Honors****Credits: 1.0**

This course is intended for students who will take the AP Literature and Culture as Senior. And have a deep interest in literature and are capable of reading, discussing and writing about Spanish literature in the target language at the college level. Students will read and critically analyze a broad selection of works including short stories, poetry and plays beginning with the Middle Ages, continuing into The Golden Age, through 20th century literature. Writing and discussion will be integral parts of this course, as will an exploration of the cultural issues visible in the literature. As this course will be conducted entirely in Spanish, all students will be expected to participate fully in Spanish at all times.

Grade Level: 11, 12**Prerequisites: AP Spanish Culture and Language****Fulfills: World Language Credit**

(Full year course, open to grade 11, or with teacher/Department Head approval)

192 AP Spanish Literature and Culture**Level: Advanced Placement****Credits: 1.0**

The AP Spanish Literature and Culture course is mandatory for students who completed Contemporary Spanish Literature. It uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, and literary criticism).

Grade Level: 12**Prerequisites: Advanced Contemporary Spanish Lit****Fulfills: World Language Credit****010S AP Seminar in Spanish****Level: Advanced Placement****Credits: 1.0**

AP Seminar in Spanish is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the QUEST inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. This course is conducted in Spanish and is open to any student who is fluent in Spanish. The majority of the research done throughout the course is done in Spanish.

Grade Level: 12**Prerequisites: Advanced Contemporary Spanish Lit or Department Head approval****Fulfills: World Language Credit,
Tech Ed or Social Studies**

English Department

Peter Eliot, Department Chair

The English curriculum is aligned with the *Massachusetts Curriculum Framework for English Language Arts and Literacy* and is focused on improving reading, writing, listening, speaking, and thinking skills for students of all abilities. All students must pass English I and II and are required to earn four credits in English to graduate. Throughout the curriculum, students are introduced to a variety of genres, including novels, short stories, plays, poems, and non-fiction. They are expected to do an extensive amount of writing, including persuasive, narrative, and expository assignments. Students can access The FHS Writing Center throughout the day for individual help with writing in any subject area.

Each year students must complete a significant research paper, using a variety of sources and adhering to the format of the Framingham High School Research Handbook, which is based on the Modern Language Association guidelines. Students engage with writing feedback either with writing folders or with writing conferences led by their teacher. Class discussions and cooperative learning are major components of English classes, and all students are expected to engage with the material in meaningful ways. In addition to full-year courses, elective courses are offered in the hope that students can find some agency in their learning as they prepare for whatever awaits them after graduation.

Sequence of Courses

Grade 9	Grade 10	Grade 11	Grade 12
English 1 H English 1 ACP English 1 CP	English 2 H English 2 ACP English 2 CP AP Seminar** Dual Enrollment: ELA All Electives*	AP English Language and Composition (Jr) American Literature H American Literature ACP American Literature CP AP Seminar** Dual Enrollment: ELA All Electives	AP English Literature AP English Language and Composition (Sr)*** AP Seminar Dual Enrollment: ELA All Electives

***Interested grade 10 students may enroll in electives or AP Seminar in addition to English 2.**

****Students taking AP Seminar in grades 10 or 11 have the opportunity to take AP Research; see course description.**

*****Students may take AP Language and Composition either their junior or senior year**

Course Descriptions

012 English 1 H

Level: Honors

Credits: 1.0

This course is designed for students who excelled in middle school language arts and have demonstrated advanced reading, writing, listening, and/or speaking skills. Special attention is given to writing precisely for a variety of different purposes and audiences, correctly honing grammar and usage skills, and acquiring a more sophisticated, mature vocabulary. Students also become acquainted with a variety of literary genres, including the play, novel, essay, poetry, and short story. Students will learn literary terms and will be asked to apply those terms to engage with literature using a critical lens. At the honors level, students must be able to read and comprehend complex texts independently. Students who select this course should be recommended by their eighth-grade teacher and should have a genuine appreciation for the study of language and literature or be willing to begin one.

Grade Level: 9

Prerequisites: None

Fulfills: English Credit

013 English 1 ACP
Level: ACP
Credits: 1.0

This course helps students strengthen the skills developed in middle school language arts, along with providing a foundation for future courses. Special attention is given to writing precisely for a variety of purposes and audiences, honing grammar and usage, and acquiring a more sophisticated vocabulary. Students also become acquainted with a variety of literary genres, which may include the play, novel, essay, epic, memoir, graphic novel, and short story. Students will learn literary terms and will be able to apply those terms to engage with literature using a critical lens. At this level students must be able to read and comprehend complex texts both independently and with teacher support.

Grade Level: 9
Prerequisites: None
Fulfills: English Credit

014 English 1 CP
Level: College Prep
Credits: 1.0

This course supports students in improving their reading, writing, speaking, and listening skills to be successful at the high school level. Special attention is given to writing precisely for a variety of different purposes and audiences, honing grammar and usage skills, and acquiring a more sophisticated vocabulary. Students also become acquainted with a variety of literary genres, including the play, novel, essay, graphic novel, epic, and short story. Students may also engage in independent reading projects. Students will learn literary terms and will be asked to apply those terms as they engage critically with literature. At this College Prep level, students will be asked to complete work outside of class time, though a portion of their work will be done during class. At this level students build skills in order to read and comprehend complex texts with teacher support.

Grade Level: 9
Prerequisites: None
Fulfills: English Credit

022 English 2 H
Level: Honors
Credits: 1.0

This course builds on the skills taught in English 1. Representative literary selections from all genres are studied. Students further develop the ability to analyze texts critically using literary terms. Writing assignments continue to emphasize literary analysis and composition skills with attention to grammar, usage, and mechanics in preparation for the MCAS exam. Students may also engage in independent reading projects. Students who enter into English 2 Honors will be asked to complete work outside of class regularly to prepare for discussion and analytical assignments during class time. Further skills include building a strong work ethic and a genuine love of literature. Students who elect this level should have the recommendation of their previous English teacher.

Grade Level: 10
Prerequisites: English 1
Fulfills: English Credit

023 English 2 ACP
Level: ACP
Credits: 1.0

This course builds on the skills taught in English 1. Students read selections from several genres and pay special attention to the development of reading, writing, speaking, and listening skills. Writing assignments continue to emphasize literary analysis and composition skills with attention to grammar, usage, and mechanics. Students may also engage in independent reading projects. In conjunction with English 1, successful students in this course should be well prepared for the MCAS exam.

Grade Level: 10
Prerequisites: English 1
Fulfills: English Credit

024 English 2 CP
Level: College Prep
Credits: 1.0

This course is designed to help students improve their reading and writing skills in order to continue being successful at the high school level. Readings will include a variety of genres and may include an independent reading project. Students will be expected to write essays with well-organized inferential paragraphs using complete sentences, correct grammar, and proper punctuation in preparation for the MCAS exam. Students will continue learning literary terms and how to use them to increase their understanding of what they read. Further skills include building a strong work ethic and a genuine love of literature.

Grade Level: 10
Prerequisites: English 1
Fulfills: English Credit

035 American Literature H**Level: Honors****Credits: 1.0**

This course consists of a thematic and historical approach to American literature and an analysis of the genesis, efficacy, and integrity of the American Dream from a variety of perspectives, including authors from the 19th, 20th, and 21st centuries such as Mark Twain, Zora Neale Hurston, Lorraine Hansberry, F. Scott Fitzgerald, Arthur Miller, Toni Morrison, and Sherman Alexie. Students at the honors level will be asked to complete the majority of their work outside of school to prepare for discussion and analysis-based skill-building. Students should be self-motivated and enjoy reading, analyzing, and discussing books and ideas. Students will write essays, study vocabulary, and review grammar in part to prepare for the SAT. Students who elect this level should have the recommendation of their previous English teacher.

Grade Level: 11**Prerequisites: English 2****Fulfills: English Credit****033 American Literature ACP****Level: ACP****Credits: 1.0**

This course consists of a thematic and historical approach to American literature and American authors including those from the 19th, 20th, and 21st centuries, such as Mark Twain, Zora Neale Hurston, Lorraine Hansberry, F. Scott Fitzgerald, Arthur Miller, Toni Morrison, and Sherman Alexie. Students will analyze the genesis, efficacy, and integrity of the American Dream and other pertinent themes. At the Advanced College Prep. level, students are expected to do much of their work outside of school hours. Students should also have sound writing, reading, listening, and speaking skills and good work habits. Class discussions, presentations, group work, individual projects, and SAT preparation will be integral parts of the course.

Grade Level: 11**Prerequisites: English 2****Fulfills: English Credit****036 American Literature CP****Level: College Prep****Credits: 1.0**

This course consists of a thematic and historical approach to American literature featuring both classic and contemporary American authors and a variety of genres. The concept of the American Dream is a major focus; however, students will study several thematic elements through a variety of perspectives. As a College Prep class, students will be asked to complete work outside normal school hours, though a portion of work will be done during school. The focus will be on improving students' skills in reading, writing, speaking, listening and grammar in part to prepare for the SAT test. Class discussions, presentations, group work, and individual projects will be integrated into the course.

Grade Level: 11**Prerequisites: English 2****Fulfills: English Credit****ELECTIVES**

In lieu of a full-year course, grade twelve students will choose two electives from a list of engaging, rigorous offerings. Multiple levels are offered for certain elective classes; in these cases, students should choose their level appropriately using help from their counselor, teacher, and/or department chair. Grade 12 students are given first choice for these electives to meet graduation requirements, but students in grades 10-12 are welcome to enroll if space allows.

Electives offer students an opportunity to focus on a genre, time period, or location of their choosing; to find a topic they feel passionate about; or to be open to a new topic about which they might grow passionate. Reading, writing, speaking, and listening skills still align to the Massachusetts Frameworks while allowing students some autonomy in their learning and offer diverse opportunities for academic and social/emotional growth.

015 Detective Fiction and True Crime Narrative Honors**015a Detective Fiction and True Crime Narrative ACP****Level: Honors/ACP****Credits: .5**

This course is designed to dive deep into society's obsession with both the mystery/detective and true crime genres. Students will learn what unites and separates these two genres, while also practicing how to identify the elements of a mystery, analyze the narrative point of view of true crime and detective stories, research evidence and motives in actual true crime cases, craft compelling crime narratives of their own, and much more. Over the length of the course, students will think critically about potentially harmful biases in true crime cases while also analyzing criminal motives and behaviors and working to define what justice looks like for victims and their families. Overall, students will walk away from this course with a firm understanding of what makes a compelling mystery/detective story and why true crime narratives in their many different formats continue to fascinate and engage modern audiences today.

Grade Level: 10, 11, 12**Prerequisites: English 1****Fulfills: English Credit**

016 The Evolution of the Heroine Honors**016a The Evolution of the Heroine ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

In this course, students learn to think critically about the evolution of the heroine protagonist in literature and film through different literary and social movements. Students will analyze excerpts and full length texts including *Antigone*, *Emma*, *NW*, and *The Hunger Games*. Further, students will study the evolution of heroines in film, including Disney princesses, in relation to developments in women's rights, gender equality, and waves of feminism. Students will write and present analysis and personal reflections of themes and comparisons.

017 Sports and Society Honors**017a Sports and Society ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course will analyze how gender, sexual identity, socio-economic standing and race interact throughout sports. Content will cover recent events as well as historically important events. Through readings, analytical writing, podcast consumption/creation, documentary viewing, and discussion, students will explore how sports can either create obstructions or provide opportunities for people. Students will be able to distinguish between objective and subjective viewpoints in sports writing and media.

020 College Composition Honors**020a College Composition ACP****020c College Composition CP****Level: Honors/ACP/CP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This is a writing-intensive course designed to prepare student writers for the demands of college writing. It will provide students with the skills and mindsets needed to effectively respond to a range of academic and public writing situations through particular attention to rhetorical flexibility. Students will read shorter nonfiction pieces that showcase various methods of development that they will then employ in their own writing.

021a Real World Writing & Communication ACP**021c Real World Writing and Communication CP****Level: ACP/CP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This is a writing intensive course designed to support the fundamentals needed for effective communication in real-life situations and in the workplace. Students will learn to use communication for self-advocacy by writing for different audiences and purposes. Some skills to be practiced: emails, complaints, phone calls, media literacy, opinion pieces, tributes, etc.

025 Shakespeare: Timeless or Overrated? Honors**025a Shakespeare: Timeless or Overrated? ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

The Bard is almost inescapable -- not only do we read *Romeo and Juliet* and potentially other Shakespeare plays, but references to his work are everywhere. This ACP/Honors class asks, "Is Shakespeare really as great as everyone thinks?" Students will engage with Shakespeare's poetry, plays, and other media to explore his canon, the impact he's had on more contemporary works, and see whether his tales are told "by an idiot, full of sound and fury, signifying nothing", or if they are "great in act, as [they] have been in thought."

026 Voices of the World Honors**026a Voices of the World ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course includes literature from a variety of cultural perspectives, primarily beyond the United States' borders. Students will learn about different cultures through shorter genres: short stories, plays, poetry, speeches, essays,

excerpts, documentaries, etc. Both reading comprehension and critical thinking skills will be emphasized along with a focus on improving reading, writing, speaking, and listening skills to prepare students for success beyond graduation.

027 World Theater Studies Honors

027a World Theater Studies ACP

Level: Honors/ACP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

It is said that an actor is a three-dimensional literary critic. The theater is rife with profound insight into our humanity, identity, and more, and it is an actor's job to consider these ideas and give them a face. This class reads plays from some of the world's greatest playwrights -- Anton Chekhov (Russia), Kalidasa (India), Samuel Beckett (Ireland), Guan Hanqing (China), and Ken Saro-Wiwa (Nigeria), among others -- are discussed as students grapple with what these playwrights have to say about the human condition, especially in their home countries.

028 Boston: Then and Now Honors

028a Boston: Then and Now ACP

Level: ACP/CP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

Boston has a long, complex, and sometimes problematic history. Whether it was battles on Breed's Hill (not Bunker Hill!), the race riots of the 1970s, or LeBron James saying that fans of the Celtics are "racist", Bean Town has offered quite a bit for history books to document. This class examines these complexities: beginning with the anchor text, *Common Ground* by J. Anthony Lukas, to additional nonfiction and poetry readings, students will look closely at Boston's history with race and racism, the sociology of its many different neighborhoods, and consider the extent to which we should "love that dirty water."

029 Are You Afraid of the Dark? Honors

029a Are You Afraid of the Dark? ACP

Level: Honors/ACP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

Believe it or not, horror stories predate the *Saw* franchise. Whether it's physical or psychological terror, these stories have had audiences enraptured for centuries. What is about basement stairs, or a forest at night, that makes the hair on your neck stand up? In this class, a variety of short and long reading assignments seek to answer these questions: what makes us afraid, why do we seek this fear through various media, and how do authors effectively capture this fear through their work?

030a The Evolution of Hip Hop ACP

030c The Evolution of Hip Hop CP

Level: ACP/CP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

Hip Hop began in the late 1970s, but didn't really hit its stride until the 80s and 90s, beginning with artists like Grandmaster Flash and then furthered by artists like DMX, Jay-Z, and Dr. Dre. This course considers the birth of hip hop (and its forefather, jazz), its lyrics, album artwork, and historical context to consider the impact hip hop has had on American culture and the ways hip hop speaks of the American experience, especially for people of color.

031 Once Upon a Time Honors

031a Once Upon a Time ACP

Level: Honors/ACP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

It's easy to think of contemporary 'fairy tales' as the height of the form, but even if you can't "let it go," while early Disney movies like *The Lion King* and *Fantasia* are now considered foundational, the original fairy tales date back thousands of years. This class explores modern, classical, and ancient fairy tales to consider how their themes and audiences have evolved over time, and how even the simplest fairy tale can move the most steadfast adult.

032c Video Games as Literature

Level: CP

Credits: .5

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

One of the most compelling storytelling moments of the early 2000s was the climax of the 2007 video game *Bioshock*. *Bioshock* helped change the future of games: they could offer incredibly profound, complex narratives all while asking for deft thumb movements. This class will consider some of these stories -- stories from *Bioshock*, *What Became of*

Edith Finch?, *The Last of Us*, *Oxenfree*, and more. Through reading, writing, listening, and yes, a little gaming, students will consider the stories that are told, the reasons they are compelling beyond their controller, and the ways they impact their audience as they consider mood, tone, characterization, and more.

034a Coming of Age Queer ACP

034c Coming of Age Queer CP

Level: ACP/CP

Credits: .5

In this class, students will read young adult literature about - and often written by - LGBTQIA+ folx. We will explore questions like: what elements of growing up are universal? What aspects are unique to queer experiences? How do we come home to ourselves? Along the way, students will engage in reading, analysis, reflective journaling, creative writing, and collaborative conversation.

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

042a Displaced: Immigrant & Refugee Stories ACP

042c Displaced: Immigrant & Refugee Stories CP

Level: ACP/CP

Credits: .5

On their website, Amnesty International shares, "Every day, all over the world, people make one of the most difficult decisions in their lives: to leave their homes in search of a safer, better life. Some people leave home to get a job or an education. Others are forced to flee persecution or human rights violations such as torture. Millions flee from armed conflicts or other crises or violence. Some no longer feel safe and might have been targeted just because of who they are or what they do or believe – for example, for their ethnicity, religion, sexuality or political opinions. These journeys, which all start with the hope for a better future, can also be full of danger and fear." This class explores both sides of the decision -- the hope and the fear -- of some of these immigrants and refugees, offering a profound window into the lives of those who have made the decision to leave or flee their home country.

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

045a Graphic Novel Analysis ACP

045c Graphic Novel Analysis CP

Level: ACP/CP

Credits: .5

This course teaches students to critically consume the literary genre of graphic novels through a combination of visual exploration and close reading. Students will analyze graphic novels by studying the interplay between text and illustration and how an illustrator's art impacts the meaning of the story. Students will write and present interpretations and personal responses to the art, themes, and styles of illustrators and authors.

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

060 Looking Through the Lens Honors

060a Looking Through the Lens ACP

Level: Honors/ACP

Credits: .5

Film is an important element in American culture. Interestingly, it often has a literary influence that is not readily "seen". In this class, students will view films with the goal of becoming critical observers, able to determine how literary elements are presented and used to tell the film's story. The course will require that students read books that have been adapted into films, and also require written analyses that ask students to voice their own opinions regarding the use of literary and film devices and their effectiveness. Students' opinions will inspire interesting discussion and debate as students gain a new appreciation for what they are viewing.

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

062a Humanities ACP

062c Humanities CP

Level: ACP/CP

Credits: .5

This course focuses on creativity through the exploration of writers, visual artists, musicians, filmmakers, scientists, and designers. By exploring their processes, we will investigate how all of us can develop and enhance our own capacity for creative thinking. Through various class activities such as brain games, meditative drawing, journaling, photo/video storytelling, and film storyboarding, you will explore your own creativity that culminates in a final project based on personal interests.

Grade Level: 10, 11, 12

Prerequisites: English 1

Fulfills: English Credit

067 Journalism Honors**067a Journalism ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course is designed to give students an introduction to the many facets of contemporary journalism. Students focus on the impact of the media in American society, learn how to write news articles, editorials, and feature stories, examine and create editorial cartoons, and explore the history and use of photojournalism. Students regularly read newspapers and a variety of magazine articles, plus view broadcast news programs in order to examine how journalism is used in the professional world.

070 Public Speaking Honors**070a Public Speaking ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course will help students gain confidence in their ability to present in front of an audience. Students will participate in activities to create a supportive classroom community, to improve their communication skills, and to discover their own strengths and weaknesses as speakers. Students will study a variety of speech delivery methods, practice a range of speech delivery skills, develop an understanding of speech structure, gain an awareness of the various purposes of public speaking, and prepare and present original speeches. Speeches may include informative speeches, persuasive speeches, demonstration speeches, panel discussions, scene performances, poetry slams, tours, interviews, and toasts.

076 ELA Foundations**076a ELA Foundations ACP****076c ELA Foundations CP****Level: Honors/ACP/CP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course offers support for students who need extra help preparing for the MCAS exam, or for those students who may need additional support with foundational ELA skills.

083 Creative Writing Honors**083a Creative Writing ACP****Level: Honors/ACP****Credits: .5****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: English Credit**

This course will help students become more creative, develop an individual writing style, and develop facility in written communication. Many writing assignments stimulate students to observe the world around them and to incorporate their impressions and ideas into their writing, whether by creating characters, settings, tone, or mood. Students will be asked to write poems, journals, short stories and plays. Good writing skills are a prerequisite for this course. While some work is completed in class, some outside work production is to be expected.

ADVANCED PLACEMENT COURSES**010 AP Seminar****Level: Advanced Placement****Credits: 1.0****Grade Level: 10, 11, 12****Prerequisites: English 1****Fulfills: See Below***

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the QUEST inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

*AP Seminar can be taken for credit as a History elective, a Practical Art, or English.

In the 10th grade, AP Seminar can be taken for elective credit in addition to English 2. Students taking AP Seminar in

grades 11 or 12 may count it as their English credit.

**One section of AP Seminar (010S) will be taught in Spanish as an option for students in the Dual Language program, ESL, or World Language who are fluent in Spanish.

040 AP English Language & Composition (JR)

Level: Advanced Placement

Credits: 1.0

The course will integrate American literature with nonfiction to create a balance that addresses the necessary preparation for the AP exam. By studying different modes of writing and reading a variety of genres, students will sharpen their close reading, analytical writing, persuasive techniques, and research skills. The course includes reading from different subject areas, such as politics, science, history, business, philosophy, journalism, and pop culture. There will be periodic practice exams as well as other essays, projects, tests, and assignments. Class participation in discussions and group work are essential requirements. This is designed as a college level course and therefore demands additional time for outside study. Success on the AP exam in the Spring may lead to college credit.

Grade Level: 11

Prerequisites: English 2

Fulfills: English Credit

040a AP English Language & Composition (SR)

Level: Advanced Placement

Credits: 1.0

The class will integrate world literature with nonfiction to prepare for the AP exam. By studying different modes of writing and reading a variety of genres, students will sharpen their close reading, analytical writing, persuasive techniques, and research skills. The course includes reading from different subject areas, such as politics, science, history, business, philosophy, journalism, and pop culture. There will be periodic practice exams as well as other essays, projects, tests, and assignments. Class participation in discussions and group work are essential requirements. This is designed as a college level course and therefore demands additional time for outside study. Success on the AP exam may lead to college credit.

Grade Level: 12

Prerequisites: American Literature

Fulfills: English Credit

041 AP English Literature (SR)

Level: Advanced Placement

Credits: 1.0

This course is intended for seniors who have a deep interest in literature and are already capable of doing college-level work. An exploration of sophisticated works of world literature will be supplemented by research, and composition work. Reading and analyzing poetry is an integral part of this course. A seminar-type atmosphere will prevail, in which each student will be expected to participate fully. Success on the AP exam in the Spring may lead to college credit.

Grade Level: 12

Prerequisites: AP Eng Lang & Comp or DH approval

Fulfills: English Credit

DUAL ENROLLMENT COURSES

018 English - Dual Enrollment

Level: College

Credits: .5

Co-taught by an FHS teacher of English and a college professor, this course allows students to experience the academic rigor and methods of a college course -- and earn college credit -- while utilizing the support dispensed by high school staff. Students will engage in thematically connected literature and literary criticism while honing their writing and critical thinking skills.

Grade Level: 10, 11, 12

Prerequisites: None

Fulfills: English Credit

Family & Consumer Sciences

Lisa Barnes, Department Chair

The Family and Consumer Sciences program of studies at Framingham High School has been recognized for excellence at the state and national levels. We offer courses in all the major areas of Family and Consumer Sciences. Any of these courses will fulfill the student's graduation requirement in Practical Arts.

In order to prepare students for family life, work life, and careers, we provide opportunities to elect courses from the five major areas of: Foods, Nutrition, Clothing and Textiles, Human Development, and Housing and Interiors. Each of these courses will develop the knowledge, skills, attitudes, and behaviors needed for:

- Strengthening the well-being of individuals and families
- Becoming responsible citizens and leaders in family, community, and work settings
- Promoting optimal nutrition and wellness across the life span
- Managing resources to meet the material needs of individuals and families
- Balancing personal, home, family, and work lives
- Using critical and creative thinking skills to address problems in diverse family, community and work environments
- Successfully managing life, employment, and career development
- Functioning effectively as providers and consumers of goods and services
- Appreciating human worth and accepting responsibility for one's actions and success in family and work life

Family and Consumer Sciences education empowers individuals and families across the life span to manage the challenges of living and working in a diverse global society. Our unique focus is on families, work and their inter-relationships. It is our hope that every student takes full advantage of the opportunity to explore and learn within our department during his or her time at Framingham High School

FAMILY AND CONSUMER SCIENCES SCOPE AND SEQUENCE

ENTRY GRADE LEVEL: STUDENTS MAY ENTER AT OR ABOVE GRADE 9

Major Areas/Career Pathway	Prerequisite/Entry Level Course (no grade restrictions)	10th, 11th or 12th Grade Only	11th & 12th Grade Only
Early Childhood & Human Development	Child Growth and Development ACP	Infant & Toddler Care Introduction to HealthCare Careers Psychology for Living	Early Childhood Education Honors
Clothing & Textiles	Clothing 1	Advanced Clothing <i>And/Or</i> Fashion Design	Lab Aide
Foods and Nutrition	Foods 1	Advanced Culinary Skills <i>And/Or</i> World Foods	Lab Aide
Housing and Interiors	Interior Design	Advanced Interior Design	Lab Aide

Career Pathways Completion of all courses in these career pathways will earn a certificate of completion for students. These certificates can help students enter post-secondary programs with advanced knowledge and preparation for learning in their chosen career field. Each Pathway is interdisciplinary and involves cooperative interdepartmental planning to provide opportunities for students to make informed plans for future education. Completion of the Child, Family, School, and Community Dual Enrollment course will give students course credit at Framingham State University. Students who complete the MassBay Asynchronous Child Development course will be ready to apply for their EEC Teacher Certification.

Early Education and Care:

- Child Growth and Development
- Infant and Toddler Care
- Early Childhood Education
- FSU Dual Enrollment: Child, Family, School & Community
- MassBay Asynchronous Child Development

Family and Consumer Studies:

- **Culinary Specialty**
 - Foods 1
 - Advanced Foods
 - World Foods
- **Clothing Specialty**
 - Clothing 1
 - Advanced Clothing
 - Fashion Design
- **Interior Design Specialty**
 - Interior Design
 - Advanced Interior Design
- **Healthcare Specialty**
 - Introduction to Health Care Careers
 - Psychology for Living

Course Descriptions

600 Foods 1 ACP

Level: ACP

Credits: .5

This course is designed as an introduction to foods and nutrition. Students will learn to plan and prepare foods that enhance health and follow the guidelines of the United States Department of Agriculture MyPlate recommendations. Experiences in preparing foods for snacks, meals, and entertaining are integral parts of this one semester course. The skills necessary for planning, cooking and serving nutritious meals will be practiced in the foods laboratory. Nutrition, food science, appliance technology, current food trends, and food safety will be the focus of lessons and activities.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical Arts Credit

602 World Foods ACP

Level: ACP

Credits: .5

This semester course offers the student the opportunity to explore the customs and methods of food preparation used in other countries and in regional sections of the United States. Foods and holidays of a variety of ethnic groups will be studied. Geography and its relation to the production of foods and ethnic diets will be explored. Students will have the opportunity to share and prepare their ethnic food favorites with members of the class and invited guests.

Grade Level: 10, 11, 12

Prerequisites: Foods 1 ACP

Fulfills: Practical Arts Credit

624 Advanced Culinary Skills

Level: ACP

Credits: .5

This course is designed for students who enjoy the work of food preparation and want more in depth culinary skills. Students will learn advanced food preparation, storage and serving skills while using advanced equipment, skills and food science technology. They will also learn basic business and marketing skills. The focus of the course will be an introduction to college level culinary arts with time spent helping students to explore the school to career possibilities of the culinary industry, with guest speakers from food institutions and colleges with majors in culinary arts.

Grade Level: 10, 11, 12

Prerequisites: Foods 1 ACP

Fulfills: Practical Arts Credit

606 Clothing Skills 1 ACP**Level: ACP****Credits: .5**

In this project-based course, students will learn the basics of clothing construction using commercial patterns and regular and serger sewing machines as well as our digital embroidery machines. The consumer skills of pattern selection, fabric selection, and care of fabrics are emphasized as the basis for a successful sewing project. Basic construction techniques will be taught throughout this semester course. Each student will begin a portfolio of construction techniques. This portfolio will be completed in the subsequent Advanced Clothing and Fashion Design courses if students choose to continue to study in the clothing department.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Practical Arts Credit****607 Advanced Clothing ACP****Level: ACP****Credits: .5**

This is a course designed for those students who desire to learn advanced clothing construction techniques. Students will construct a challenging garment which incorporates techniques which the teacher and student determine are appropriate for the student's skill level. Students will also continue to build the clothing portfolio of construction techniques, and prepare and deliver lesson presentations on advanced construction skills and techniques.

Grade Level: 10, 11, 12**Prerequisites: Clothing 1****Fulfills: Practical or Fine Arts Credit****608 Fashion Design****Level: ACP****Credits: .5**

This is an advanced course designed for those who enjoy creating fashion garments with challenging designer patterns. Students will select projects that will challenge them to learn and perfect construction skills, which are appropriate for individual skill levels. Historic costumes as well as the world of modern fashion design will be studied. After studying basic fashion drawing skills, students will complete an illustration project, which will show the impact of style, color, and fabric design on the consumer appeal of a garment. Students will develop a portfolio of their construction skills.

Grade Level: 10, 11, 12**Prerequisites: Clothing 1****Fulfills: Practical or Fine Arts Credit****610 Psychology for Living****Level: ACP****Credits: .5**

An introduction to modern psychology directed toward the understanding and development of the individual. Areas of exploration will include a basic study of the history of psychology, the schools of psychology, social relationships, mental health, and the basic processes of human behavior. Social psychology and its implications on the family and individuals will also be stressed. Career awareness and reaching optimum development in life will be common strands of each unit. Current events and the psychological impact of these events on the individual, family, workplace and society will be integrated throughout the course. Major units will be: career exploration, communication, consumer choices, conflict resolution, relationships, money management, getting and finding a job, and balancing life work and leisure.

Grade Level: 10, 11, 12**Prerequisites: None****Fulfills: Practical Arts Credit****614 Interior Design ACP****Level: ACP****Credits: .5**

This course is designed to broaden the student's understanding of concepts in housing so that they may better select, creatively design, and live in tomorrow's habitats. Areas of emphasis include house design, consumer choices, furniture identification and selection, decorating principles, and original plans. Field trips to furniture stores, designer workshops, and newly developed housing options in the Framingham community will showcase career options for students interested in this field.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Practical or Fine Arts Credit****612 Child Growth and Development ACP****Level: ACP****Credits: .5**

This course studies the physical, social, emotional, psychological, and intellectual growth of the child from ages 0 to 3 years. Included will be in-depth child study. As a result of this course, the student should develop self-understanding and knowledge of child development and its place in the family unit. Through our onsite daycare as well as guest speakers, students will have an opportunity to observe and interact with children of varying ages. Children with special needs will also be studied. Students will study the growing field of Early Childhood Education as a career.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Practical Arts Credit**

Students will do formal observations, experience empathy for pregnant women and parents of newborns, and develop a repertoire of creative activities for interacting with children.

621 Early Childhood Education H

Level: Honors

Credits: 1

This course is designed for students who have successfully completed Child Growth and Development. The course components are: a full year in a practicum setting working with preschoolers (3-5 year olds) in the high school BLOCKS preschool classroom; planning and teaching lessons using the Massachusetts Curriculum Frameworks for Early Childhood Education; completing Children's literature reviews; Developing and executing lesson plans based on the Massachusetts curriculum Frameworks for Early Childhood Education; development of a professional portfolio of their work, including a resume. Students develop a repertoire of creative activities for teaching and interacting with children.

Grade Level: 9, 10, 11, 12

Prerequisites: Child Growth & Dev and Teacher Rec

Fulfills: Practical Arts Credit

637 Child, Family School & Community - Dual Enrollment

Level: College

Credits: 1

This class is designed for students who have successfully completed the Early Childhood Education Honors course and wish to further their studies in Early Childhood Education as a career. This course is taught in coordination with the Framingham State University Early Childhood Education Program using the college's approved curriculum and will be offered in the Fall Semester. Students that successfully complete this course will be awarded 3 course credits from Framingham State University. This course offers an introduction to the diverse contexts of children, families, schools, and communities in the United States. Attention is given to the connections between these institutions and how they can be utilized to support the learning and development of children. The roles of professionals who work in schools and community-based organizations also are explored.

Grade Level: 12

Prerequisites: Early Childhood Ed and Teacher Rec

Fulfills: Practical Arts Credit

638 Child Development (Asynchronous MassBay)

Level: College

Credits: 1

This class is designed for students who have successfully completed 150 contact hours in the Infant & Toddler and/or Early Childhood Education course who wish to receive their EEC Teacher certification. This course will be offered in the Spring semester. Students will take the MassBay course asynchronously and use class time to work together on coursework as well as work in the daycare and preschool classrooms onsite. MassBay Course Description: This Child Development course examines child development from conception through middle childhood with a focus on physical, cognitive and socioemotional development. Special emphasis is given to the role of environmental contexts and culture. Practical applications of developmental theories are covered, along with an observational component. Application of child development theory in early childhood education is an integral part of the course. Successful completion of this course in addition to required contact hours and high school diploma will result in EEC Teacher Certification in Infants/Toddlers and/or Preschool.

Grade Level: 12

Prerequisites: Infant & Toddler Care and/or Early Childhood Ed and Teacher Rec

Fulfills: Practical Arts Credit

622 Introduction to Health Care Careers ACP

Level: ACP

Credits: .5

Health Care Careers Pathways is a component of the interdepartmental Health Care careers pathways. The course has been designed by a faculty team of Family and Consumer Sciences, Health, and Science teachers to prepare students to work in health careers of the 21st century. The goal of this course is to introduce interested students to a variety of careers in health care, the requirements for admission to programs and colleges with these career majors, and the expectations of those working in the careers. We will study health care today, health insurances, work behaviors for success, media literacy and communication in health care settings. Units include body systems, medical terms, cultural competency and medical ethics. Students will visit college facilities, which offer certificates and degrees in a variety of career choices. Field trips and guest speakers representing community health facilities will also enhance the coursework. Students will also learn and participate in resume writing, career outlook search, college searches, job interviews, and job application writing. Students can then make an informed decision as they begin their college and career searches.

Grade Level: 10, 11, 12

Prerequisites: Biology and Health

Fulfills: Practical Arts Credit

623 Infant and Toddler Care ACP

Level: ACP

Credits: 1

Students in this course will examine the specialized needs of infants and toddlers. Students will work in small groups to plan and provide activities that promote the development of intelligence, language skills, safe physical exploration, and social skills of the infants and toddlers in the day care setting. Students will study types of programs serving

Grade Level: 10, 11, 12

Prerequisites: Child Growth & Dev and Teacher Rec

Fulfills: Practical Arts Credit

infants, toddlers and their families and will focus their work on the design of optimum environments and curricula. Students will become familiar with the regulations of the EEC (Massachusetts Office of Early Education and Care) and use them as guidelines when they work as teacher assistants in the onsite staff day care center.

Fine and Performing Arts Department

Christopher Brindley, Department Chair

The objective of the Fine and Performing Arts program is to train accomplished and passionate arts students. Interested students should possess a strong work ethic and an appreciation of artistic discipline. The Fine and Performing Arts Department challenges students both creatively and academically and approaches each course with an eye towards hands-on learning in the hopes of creating students with a lifelong passion for the arts as a part of the global world.

Within well-equipped art studios, a state of the art theater, a performance studio, professional quality music rooms and keyboard labs, students explore a wide variety of arts techniques and approaches. Serious art students have the opportunity to work towards acceptance for admission to a variety of college arts programs while curious art students are introduced to an array of techniques particular to that individual art. All students develop an appreciation for the fundamental and integral tenets of all the art forms.

Course Offerings

Art: Visual Art and Photography Music:
Instrumental and Vocal Theatre Arts
Dance

Art

Art courses offer students opportunities to learn about and experience art creation. The emphasis is on the processes involved in creating visual works, which are produced utilizing a wide variety of media and materials. Students learn to classify art works by historical period, style and genre, and to view and understand them within a historical perspective. Student artwork is prominently displayed in our school and community. Students build art skills and acquire appreciation concepts, which can be used independently throughout their lives

Sequence of Courses

Grade 9	Grade 10	Grade 11	Grade 12
3D Art (I)	3D Art (I)	3D Art (I)	3D Art (I)
Ceramics 1 (I)	3D Art 2 (IN)	3D Art 2 (IN)	3D Art 2 (IN)
Painting & Drawing (I)	Ceramics 1 (I)	Ceramics 1 (I)	Ceramics 1 (I)
Photography 1 (I)	Painting & Drawing (I)	Painting & Drawing (I)	Painting & Drawing (I)
	Painting 2 (IN)	Painting 2 (IN)	Painting 2 (IN)
	2D Art (IN)	2D Art (IN)	2D Art (IN)
	Ceramics 1 (I)	Ceramics 1 (I)	Ceramics 1 (I)
	Ceramics 2 (IN)	Ceramics 2 (IN)	Ceramics 2 (IN)
	Ceramics 3 (IN)	Ceramics 3 (IN)	Ceramics 3 (IN)
	Photography 1 (I)	Photography 1 (I)	Photography 1 (I)
	Photography 2 (IN)	Photography 2 (IN)	Photography 2 (IN)
	Photography 3 (IN)	Photography 3 (IN)	Photography 3 (IN)
		Engineering by Design H (A)	Engineering by Design H (A)
		Studio Art H (A)	Studio Art H (A)
		AP Art and Design (A)	AP Art and Design (A)

I: Intro Level Course IN: Intermediate Course A: Advanced Course

To enter Studio Art Honors you must take a minimum of two intro level courses and one intermediate course. You must take Art 3H to take AP Art and Design.

Major Areas/Career Pathway	Prerequisite/Entry Level Course (no grade restrictions)	10th, 11th or 12th Grade Only	11th & 12th Grade Only	
Painting & Drawing	Painting & Drawing ACP	Painting 2 ACP <i>And/Or</i> 2D Art ACP	Studio Art H	AP Art and Design
3D Art	3D Art ACP	3D Art 2 ACP	Studio Art H	AP Art and Design
Ceramics	Ceramics I ACP	Ceramics 2 <i>And/Or</i> Ceramics 3	Studio Art H	AP Art and Design
Photography	Photography I ACP	Photography II ACP <i>And/Or</i> Photography III ACP	Studio Art H	AP Art and Design

Course Descriptions

651 3D Art ACP (Formerly Mixed Media Crafts)

Level: ACP

Credits: 0.5

This course introduces students to the contemporary world of crafts. Each unit will allow students to become familiar with new techniques, processes, and media, such as weaving, fiber arts, artist books, unconventional mixed media and much more. Students will focus on the process of creating as well as the final product and both informal and formal critique. Traditional crafts and various cultures will be investigated to provide a context and inspiration for students' art making.

Grade Level: 9, 10, 11, 12

Prerequisites: NONE

Fulfills: Fine and Performing Art or Practical Art Credit

652 3D Art 2 ACP

Level: ACP

Credits: 0.5

Using the techniques mastered in the 3D art course, students will continue to explore the 3D contemporary art world through a more conceptual lens. Each unit will allow students to dive deeper into a variety of sculpture forms and techniques such as weaving, fibers, enameling, clay, paper mache and glass. Students will walk away from this course with a robust understanding of the entire process of creating three dimensional work; sketching, planning, making, and analysis of the work.

Grade Level: 9, 10, 11, 12

Prerequisites: 3D Art ACP

Fulfills: Fine and Performing Art or Practical Art Credit

641 2D Art ACP (Formerly Studio Art 2)

Level: ACP

Credits: .5

This course is planned to reinforce the skills learned in Foundations of Art as well as help students develop a more individualistic approach to problem solving. Greater emphasis will be placed on design fundamentals related to drawing, painting, design, sculpture, and printmaking as a means for recording an experience, relating an idea, or expressing a feeling. Exposure to a range of artists and styles will provide the knowledge necessary to advance skills and deepen understanding of art. Students will also participate in a group installation art piece in the school community. The exposure students will get in this course will provide additional methods for critical comparison and better comprehension of historical and contemporary art works.

Grade Level: 10, 11, 12

Prerequisites: Painting & Drawing

Fulfills: Fine and Performing Art Credit

655 Painting & Drawing 1 ACP**Level: ACP****Credits: .5**

This is an introductory class for students who wish to learn techniques of painting as they learn about color, design, texture and the other elements of art. They will gain experience in pencil, charcoal, pastel, acrylic and watercolor. Students will create a variety of painting projects both from observation and imagination including still life, landscape and portraiture. The students will learn to critically evaluate art and will be exposed to the works and styles of painters and movements throughout history. Students will participate in both informal and formal critique.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Fine and Performing Art Credit****635 Painting & Drawing 2 ACP****Level: ACP****Credits: .5**

Using the knowledge and experience gained in Painting 1 the students will work to develop their individual voice in painting. They will develop projects experimenting with various techniques and media. Students will prepare a canvas and will work with mixed media along with acrylic and watercolor. Themes include established traditions and breaking conventions, the role of the artist, exploring social issues and movements throughout art history. Projects will reflect personal exploration of concepts and themes and experimentation with materials along with the incorporation of styles and movements studied.

Grade Level: 9, 10, 11, 12**Prerequisites: Painting & Drawing ACP****Fulfills: Fine and Performing Art Credit****630 Ceramics 1 ACP****Level: ACP****Credits: .5**

This is a hands-on introductory course in clay. Students will be introduced to basic handbuilding and wheel throwing techniques, and learn the fundamental processes of texturing, glazing and firing clay. After becoming familiar with the unique properties of clay, students will learn to make mugs, vases, bowls and other functional objects. Sculptural pieces will also be explored.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Fine and Performing Art or Practical Art Credit****631 Ceramics 2 ACP****Level: ACP****Credits: .5**

Students in this course are challenged with more complex problems as they build upon skills learned in Ceramics 1. More complex vessels, vases, bowls, and other functional objects will be created as well as more advanced sculptural objects. Time will be provided for individualized interests.

Grade Level: 10, 11, 12**Prerequisites: Ceramics 1 ACP****Fulfills: Fine and Performing Art or Practical Art Credit****632 Ceramics 3 ACP****Level: ACP****Credits: .5**

This course is designed for students with a strong interest in Ceramics and 3-D art making. Students are encouraged to work more independently and to find their own voice. Students will hone their techniques and develop skills in both functional and sculptural projects. Not limited to clay, 3-D art making with a variety of media will be encouraged.

Grade Level: 10, 11, 12**Prerequisites: Ceramics 2 ACP****Fulfills: Fine and Performing Art or Practical Art Credit****545 Photography 1 ACP****Level: ACP****Credits: .5**

This course is an introduction to the fundamental, technical, and aesthetic issues of fine art photography. Photography 1 is completely based on DSLR cameras. Students will have thorough instruction of DSLR camera operations, file editing in Adobe Photoshop, along with best practices in use of file types, lens choice, and file conversion. Students will be asked to approach their use of the camera as a tool of self-expression. Units will focus on the expressive potential of everyday life, landscape, light, and other themes. Through a variety of lectures, demos, research and projects students will understand the elements of composition and how to implement them into their own photography. Students will also engage in the criticism of their own work, and with the work of historical and contemporary photographic artists. A significant portion of the class will be conducted outdoors. Students are expected to come to class prepared to work outdoors throughout the duration of the course.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Fine and Performing Art or Practical Art Credit**

546 Photography 2 ACP**Level: ACP****Credits: .5**

Photography 2 is an extension of Photography 1. Students will continue to develop their skills of using the camera as a tool of self-expression. Photography 2 will focus on the production of images using 35mm film. Instruction on how to properly develop black and white negative film, print negatives in the darkroom, and utilize alternative techniques in the darkroom form a major part of the course. Students will also utilize a “hybrid” workflow of using film to produce photographic images then scanning those images into the computer in order to edit and print. Students will continue to critically engage with the work of their peers and contemporary photographic artists through oral and written critiques. A significant portion of the class will be conducted outdoors. Students are expected to come to class prepared to work outdoors throughout the duration of the course.

Grade Level: 10, 11, 12**Prerequisites: Photography 1 ACP****Fulfills: Fine and Performing Art or Practical Art Credit****547 Photography 3 ACP****Level: ACP****Credits: .5**

Photography 3 is an extension of Photography 1 and 2. This advanced course will focus on the creation of a complete and polished portfolio that demonstrates individual growth and aesthetic refinement. Students will engage in a continued process of critique as well as explore new tendencies in recent photographic art. They will also be asked to curate exhibitions for the classroom gallery space. Students who take Photo 3 should be self-motivated and interested in pushing the boundaries of photography as an art form. Work will be created in both digital and analogue (film) formats, and students will explore the use of medium and large format cameras. A significant portion of the class will be conducted outdoors. Students are expected to come to class prepared to work outdoors throughout the duration of the course.

Grade Level: 10, 11, 12**Prerequisites: Photography 2 ACP****Fulfills: Fine and Performing Art or Practical Art Credit****644 Studio Art Honors (Formerly Art 3 Honors)****Level: Honors****Credits: 1.0**

This advanced level course builds on the experiences from Foundations of Art and Art 2. With a strong foundation in the elements and principles of design, students will be challenged to develop their skills in drawing, painting, printmaking, collage, sculpture, and mixed media. The students will learn to critically evaluate art and will be exposed to the works and styles of artists throughout history. Students will expand the range of their own personal expression through projects such as portraiture, figure studies, abstraction, and landscapes. Students will begin a two year portfolio exploration in this course.

Grade Level: 11, 12**Prerequisites: 3 Art Courses (2 Intro/ 1 Intermediate)****Fulfills: Fine and Performing Art Credit****645 AP Art and Design****Level: AP****Credits: 1.0**

This rigorous course is offered for seniors who are very serious about art and wish to prepare a portfolio for Advanced Placement college credit. This course allows independent studio time for building a Drawing, 2-D Design or 3-D Design Portfolio. Students produce at least 24 pieces, 12 of which are a particular, personalized “Concentration”. Students will submit their work to the College Board in early May. This course is excellent for students looking to apply to a college art program.

Grade Level: 11, 12**Prerequisites: Studio Art H****Fulfills: Fine and Performing Art Credit****585 Engineering By Design Honors****Level: Honors****Credits: 1.0**

This course brings together science, technology, mathematics and the arts through an engineering lens. Students will use the Engineering Design Process to solve a series of challenges. The Engineering Design Process asks students to identify a need, research the problem, develop possible solutions, select a promising solution, build a prototype, test, evaluate and redesign as needed. Possible projects include constructing a bridge, building a musical instrument, creating a strandbeest (wind walker), designing a kinesthetic sculpture and other great engineering challenges. Guest lecturers, including artists, scientists and engineers, will add their own real-world expertise to enhance the learning experience. Students will gain exposure to industry-standard software and technologies (e.g. Simulink, CAD)

Grade Level: 11, 12**Prerequisites: Algebra 2 & Chemistry, Intro Visual Art Course****Fulfills: Fine and Performing Art, Science or Practical Art Credit**

Music

The study of music contributes positively to the quality of every student's life. Students have an opportunity to creatively express themselves vocally and instrumentally and can acquire knowledge of notation, composition and performance traditions which will assist them to perform, create and appreciate music independently for the rest of their lives. Our many and varied musical performance organizations are important contributors to the musical life of our school and community.

Grade 9	Grade 10	Grade 11	Grade 12
Freshman Band Orchestra Chorus Guitar Piano I Piano II	Band Orchestra Chorus Guitar Piano I Piano II AP Music Theory	Band Orchestra Chorus Guitar Piano I Piano II AP Music Theory	Band Orchestra Chorus Guitar Piano I Piano II AP Music Theory

Course Descriptions

662 Band ACP

Level: ACP

Credits: 1.0

Band is an instrumental music ensemble open to students who play band instruments in grades 10-12. Students build off of knowledge learned in middle school band and 9th grade band. The concert season will include 2 performances (December and April) in addition to a "Pops" Concert (June) and the possibility of other community performances (example: graduation). Participation in all performances is required.

Grade Level: 10, 11, 12

Prerequisites: Freshman Band

Fulfills: Fine and Performing Art Credit

665 AP Music Theory

Level: AP

Credits: 1.0

This accelerated course is for qualified students who have an interest in the mechanics of music beyond performing. Course emphasis is on music analysis, sight singing, and aural skills. Students are also prepared for the Advanced Placement examination in Music Theory. This course meets the Fine Arts requirement. Students should have music literacy skills.

Grade Level: 10, 11, 12

Prerequisites: None

Fulfills: Fine and Performing Art Credit

678 Framingham High School Chorus ACP

Level: ACP

Credits: 1.0

This class is for all grades interested in becoming better choral and solo singers. Students will learn basic music theory, movement, sight singing, and how to be part of a choral ensemble. Both standard and popular works are included. The chorus will sing in the Winter, Pops, and Spring Concerts. Participation in all scheduled performances is required.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Fine and Performing Art Credit

673 Freshman Band ACP

Level: ACP

Credits: 1.0

Instrumental music ensemble made for musicians in the 9th grade, transitioning from the middle school band setting. The essential goal for the class is to bridge the gap between middle and high school band where students go from having music once a week, to 5 times a cycle. It will also introduce students to a more difficult level of concert band literature, without having to make the jump to literature appropriate for grades 10-12. By the end of the course, students will feel comfortable joining older students for band in the tenth grade. Like the 10-12 band, the concert season will include 2 performances (December and April) in addition to a "Pops" Concert (June) and the possibility of other community performances (example: graduation).

Grade Level: 9

Prerequisites: None

Fulfills: Fine and Performing Art Credit

674 Beginning Guitar Techniques ACP
Level: ACP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Fine and Performing Art Credit

The course is open to any student who wishes to learn how to play the guitar. Students will learn to play single notes, basic chords, and common strumming techniques. In addition to the guitar, students will also learn basic music theory including notes and scales. This course will also give the students some background in the history of the guitar and current uses in popular music. There will be playing and written assignments. There is the possibility of one after-school performance requirement for this course.

669 Orchestra ACP
Level: ACP
Credits: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Fine and Performing Art Credit

The Orchestra is an ensemble for students who have some experience playing a string instrument (violin, viola, cello, string bass). Fundamentals of string technique and music reading are stressed. Orchestral literature from all periods of composition is used to build repertoire for programs throughout the year. The concert season will include 2 performances (December and April) in addition to a "Pops" Concert (June) and the possibility of other community performances (example: graduation) Participation in all performances is required.

676 Piano Keyboard I ACP
Level: ACP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Fine and Performing Art Credit

Utilizing the Music Department's Keyboard Lab, students will learn the basic music theory elements that are involved in playing the piano. Students will work at their own paces and be exposed to various types of piano literature spanning the Renaissance to Classical eras. Research assignments will include differing styles, composers, pianists, pedagogues, musical form, and historical perspective. Students will be expected to practice outside of class, although a piano keyboard is not a requirement to be in the class. Students will be required to participate in performances scheduled outside of class.

677 Piano Keyboard II ACP
Level: ACP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Fine and Performing Art Credit

Piano Keyboard II is for the more advanced piano students. Students will work at their own pace utilizing the Music Department's Keyboard Lab. They will learn more advanced piano playing techniques, phrasing, and differing styles. Students will be exposed to piano literature of the Classical, Romantic, and Modern eras. Students will be studying ragtime and jazz pieces. Research assignments will include differing styles, composers, pianists, pedagogues, musical form, and historical perspective. Students will be expected to practice outside of class, although a piano keyboard is not a requirement to be in the class. Students who haven't taken Piano Keyboard I need permission from the instructor. Students will be required to participate in performances scheduled outside of class.

Extra Curricular: Jazz Band, Marching Band, Indoor Marching Band, Percussion Ensemble, and A cappella

Theatre Arts

The Theatre Arts program presents an opportunity for the student of the theatre, as well as the novice, to learn and appreciate the elements of theatre as both a performer and as a supporter of the art. Students will investigate theatre through experiences in performance, evaluation, study and theatre exercises. A positive theatre appreciation, self-awareness and self-growth are some of the many building blocks of the program.

The FHS Drama Company also produces five main stage productions each year including a fall play, a musical, state festival play, a night of original works, and a senior cabaret.

Theatre Arts Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Acting I Acting II Musical Theatre I Musical Theatre II	Acting I Acting II Theatre for Young Audiences Theatre for Social Change Musical Theatre I Musical Theatre II	Acting I Acting II Musical Theatre I Musical Theatre II Theatre for Young Audiences Theatre for Social Change Acting and Play Study H	Acting I Acting II Musical Theatre I Musical Theatre II Theatre for Young Audiences Theatre for Social Change Acting and Play Study H Advanced Acting H

*To enter Acting and Playstudy H students must have taken three prior acting classes or receive permission from the Department Head. You must take Acting and Playstudy H to take Advanced Acting H in the senior year.

Course Descriptions

680 Acting I ACP

Level: ACP

Credits: .5

A fast paced workshop format designed to develop and strengthen acting, observation and listening skills, through exercises in creative movement, improvisation, creative dramatics, pantomime and theatre exercises. The central focus of this beginning level class is to build an ensemble within the class and begin to reflect on our own inner resources as an actor and build solo performance skills. The structure of the class breaks down into 75% on your feet and 25% in your seat! Text- *Stage and the School*.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Fine and Performing Art Credit

681 Acting II ACP

Level: ACP

Credits: .5

The ultimate goal is for the actor to be able to utilize his/her body in the most expressive, specific, communicative and imaginative way possible. The class will work through a series of projects, each one building on the ideas and discoveries of the one before it. The class is lab-based and interactive; students are asked to work together on projects in pairs or groups, regularly observe each other's work and actively engage in discussions of the ideas, issues, solutions and discoveries that are explored throughout the semester. Students will have in-class performances at the end of each unit. Students will be required to participate in the public performance of a One-Act play in the evening.

Grade Level: 9, 10, 11, 12

Prerequisites: Acting I

Fulfills: Fine and Performing Art Credit

684 Musical Theatre I ACP**Level: ACP****Credits: .5**

This course is designed for the performance level student who wants to work in musical theatre. The student deals with some elements of performing, singing and stage movement/dance as required for particular genres of musical theatre. MT-I will focus on the various contributions of many composers/lyricists of the Broadway stage, including such notables as Cohan, Friml, Kern, Herbert, Rodgers, Hammerstein, Berlin to name a few. An occasional class session will be devoted to vocal practice, dance and the viewing or studying of musical comedy scripts. Students will also study the early historical influences of the American Musical Theatre. Acting the Song techniques will be taught through block period review sessions and culminate in a Musical Theatre revue. This course is team taught by the Music and Theatre Arts staff. Students will be required to participate in performance scheduled outside of class.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Fine and Performing Art Credit****685 Musical Theatre II ACP****Level: ACP****Credits: .5**

This course is a continuation of Music Theatre I with a stronger emphasis on performance. Students will study composer teams from the Golden Age of Musical Theatre up to present day. Musicals studied include: *Oklahoma!*, *West Side Story*, and *Cabaret*. Students will further their understanding of song performance and character development that culminates in a revue or small musical production. Students will be required to participate in performances scheduled outside of class.

Grade Level: 9, 10, 11, 12**Prerequisites: Musical Theatre I ACP****Fulfills: Fine and Performing Art Credit****696 Theatre for Young Audiences ACP****Level: ACP****Credits: .5**

During this Performance Workshop A course, students will gain insight into the philosophies, purposes, and processes of developing theatre for youth and young audiences. The course will explore teaching drama to youth, devising and adapting stories, acting styles and techniques, and production design and management. The class will culminate in a fully realized production, produced and performed by the students, for elementary and middle school populations.

Grade Level: 10, 11, 12**Prerequisites: Acting II or Musical Theatre II****Fulfills: Fine and Performing Art Credit****698 Theatre for Social Change ACP****Level: ACP****Credits: .5**

During this Performance Workshop B course students will Investigate Augusto Boal and Theatre of the Oppressed. While exploring the tools needed to create Theatre for Social Change. Students will begin simple design elements, research a pertinent and time sensitive topic to bring to the stage and prepare a studio production to tour. Students will explore individual voice through multiple playwriting and playbuilding exercises. Performances will be scheduled at local Framingham venues and will include workshops and talk back sessions.

Grade Level: 10, 11, 12**Prerequisites: Acting II or Musical Theatre II****Fulfills: Fine and Performing Art Credit****691 Acting and Play Study Honors****Level: Honors****Credits: 1.0**

The workshop format continues in this class intended for the serious student of Acting. Using the fundamentals taught in Acting I and II the actor will analyze, research and perform scenes representative of several genres and periods in theatre history. Works to be studied and performed include Greek Theatre through Theatre of the 19th Century. Genres include Shakespearean Acting, French Comedies and 19th Century Realism. Classroom exercises focus on the physical and vocal actor. In the second semester, student actors will expand their training to include the teachings of Stanislavski. Emphasis will be put on emotional and sensory recall while creating a fully developed character and preparing two classical monologues. Students will design their personal theatre portfolio that will include two contrasting classic monologues, an actor's resume and a personal statement and reflection. Workshops include effective make-up techniques, beginning design, monologue workshops and effective audition techniques.

Grade Level: 11, 12**Prerequisites: Three Acting Classes****Fulfills: Fine and Performing Art Credit**

695 Advanced Acting Honors
Level: Honors
Credits: 1.0

Grade Level: 12
Prerequisites: Acting and Playstudy H
Fulfills: Fine and Performing Art Credit or Practical Arts Credit

Advanced Acting students will be engaged in developing the contemporary theatre artist. Actor, Director, Designer and Playwright. Students will develop the actor's craft by exploring established acting techniques that develop the actor's basic resources of body, mind and voice. Acting training is aimed at preparing them for college auditions, scholarship auditions, and festival auditions. Students will also explore play writing through the writing of a one-act play, several 10 minute plays and the development of a play for final performance. Play writing work will also result in submission to playwriting competitions. Students will study Directing and Design using original plays generated in class. All class members will be involved in all production and performance areas.

Extra-Curricular: Drama Company meets Monday afternoons in the theatre. -The Company produces three mainstage productions which may include a musical, a play and an entry into the Massachusetts Educational Theatre Guild's One Act Competition each year. This student run organization also promotes and supports theatre at our three middle schools, takes an annual trip to New York City, Walt Disney World, or another destination to see professional theatre and produces a Senior Cabaret as a part of the annual Awards Night held in May

Dance

The Contemporary curriculum is designed to incorporate movement and vocabulary from both established and relevant resources into a dancer's training and development. Use of weight, space, music and dynamics are addressed in an explorative and disciplined environment. Creativity and discussion are encouraged in a focused and challenging atmosphere.

672 Introduction to Dance
Level: ACP
Credits: .5

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: Fine and Performing Art Credit or PE Credit (Juniors and Seniors)

Introduction to Dance provides an overview for students to Dance as a discipline. Students become acquainted with basic technique in ballet, modern, jazz, contemporary, improvisation, and salsa dance. Students will develop physical awareness that is critical throughout their lives. Gaining movement skills and finding confidence through movement are a focus of this class. No previous dance experience is necessary. This course may be used for Physical Education credit for juniors and seniors.

646 Advanced Dance and Choreography
Level: ACP
Credits: 1.0

Grade Level: 10, 11, 12
Prerequisites: Introduction to Dance
Fulfills: Fine and Performing Art Credit or PE Credit (Juniors and Seniors)

Using the techniques mastered in Introduction to Dance, students will apply that knowledge to their own choreography. Advanced Dance and choreography exposes students to a variety of styles, choreographers, repertoire and music. The exploration of the process and essence of the art form helps students develop technical skills, artistry and a broader scope of life as citizens-artists-athletes in a global community. Performances offer a great opportunity and exposure for students to experience what it is like to be part of major productions. In addition to developing performance techniques, each student will be required to choreograph a dance for the class to perform at the end of the course. Dance experience and or training is required. Open to Juniors and Seniors only. This course may be used for Physical Education credit

Health and Physical Education

Michael Foley, Department Chair

The Health and Physical Education program at Framingham High School is designed to provide students with a variety of activities that will promote the core concepts of the Massachusetts Comprehensive Health curriculum Framework. These core concepts are health literacy, healthy self-management skills, and health promotion. Through the coordinated teaching of health education and physical education, these core concepts are achieved. Each discipline has a delineated responsibility of addressing certain standards within the four strands of the health framework: physical health, social and emotional health, safety and prevention, and personal and community health.

Through the health and physical education offerings, students will gain the knowledge and skills necessary to perform a variety of physical activities and will know the implications of and understand the benefits from involvement in lifelong physical activities. Students will learn factual information and develop the necessary skills to make informed choices and apply them to daily situations. Students will engage in promoting a positive learning environment within each class while understanding the benefits of upholding this attitude in their daily lifestyles.

The Health and Physical Education elective program will enrich and complete a student’s career at Framingham. Through our elective program students have the opportunity to develop areas of interest and become exposed to healthy competition, personal awareness, and future academic success.

Physical Education Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Activity Fitness Fitness for Life	Health Education	Competitive Team Sports Dance Fitness Exercise Physiology Lifetime Activities Personal Fitness Personal Training Rise and Shine Fitness Sports Education Sports Psychology Unified Phys Ed Strength and Conditioning Yoga Yoga 2 Introduction to Dance* Dance Company/Choreography*	Competitive Team Sports Dance Fitness Exercise Physiology Lifetime Activities Personal Fitness Personal Training Rise and Shine Fitness Sports Education Sports Psychology Unified Phys Ed Strength and Conditioning Yoga Yoga 2 Introduction to Dance* Dance Company/Choreography*

Course Descriptions

Health and Physical Education is a four-semester requirement for all students. Students will take one semester of Physical Education their freshman, junior, and senior years. As sophomores, students will take Health Education. A passing grade must be achieved from each course in order to receive the appropriate credits for graduation from Framingham High School: .5 credit per semester of physical education totaling 1.5 credits, and .5 for health education for a grand total of 2.0 credits toward graduation.

Each of the following courses is a semester course, which students are required to take to fulfill their four-semester requirement. There will be no repeating of any offering to fulfill the requirement. Designated elective courses will fulfill the graduation requirements.

730 Fitness for Life
Level: Unleveled
Credits: .5

Grade Level: 9
Prerequisites: None
Fulfills: Physical Education Credit

The Fitness program is a semester course that provides students with team-building activities, cooperative group lessons, the importance of flexibility and nutrition, and are exposed both inside and outside of the Wellness Center to both the muscular and cardiovascular machines and fitness activities. Students will comprehend the difference between health-related and skill-related fitness and will understand the importance of how improvement will impact their daily life. Students will learn the basic functions of nutrition and how to break down a food label as well as learn the importance of body composition and how it is measured. Additionally, by incorporating the Fitnessgram program into our curriculum, students will see their fitness progression, while understanding the importance and benefit of lifelong activity and healthy choices.

735 Health Education ACP
Level: ACP
Credits: .5

Grade Level: 10
Prerequisites: None
Fulfills: Health Credit

The Health Education Program provides students with the knowledge and skills to make informed responsible decisions and assist them in leading healthy lifestyles. The health classroom instruction will consist of introduction to the areas of health (physical, social, emotional, intellectual and spiritual), communication skills, cancers, having an awareness about healthy and unhealthy relationships, sexuality education, discussions around mental health and substance use/abuse. Students will learn ways to self advocate and be proactive as well as have knowledge on support / resources in school and within the community.

895 ESL Health Education ACP
Level: ACP
Credits: .5

Grade Level: 11,12
Prerequisites: Level 2 WIDA Score
Fulfills: Health Credit

The Health Education Program provides students with the knowledge and skills to make informed responsible decisions and assist them in leading healthy lifestyles. The health classroom instruction will consist of introduction to the areas of health (physical, social, emotional, intellectual and spiritual), communication skills, cancers, having an awareness about healthy and unhealthy relationships, sexuality education, discussions around mental health and substance use/abuse. Students will learn ways to self advocate and be proactive as well as have knowledge on support / resources in school and within the community. The ESL Health Education course parallels the mainstream health curriculum with modifications relative to the students' levels of English language proficiency. (Semester 2 course)

PHYSICAL EDUCATION ELECTIVE PROGRAM

The Framingham High School Health and Physical Education Department continues to offer an extensive elective program. **Final approval of course offerings will be made by the Health and Physical Education Department Head after careful consideration of student interest, funding, staffing and facility needs.**

729 Rise and Shine Fitness
Level: Unleveled
Credits: .5

Grade Level: 11, 12
Prerequisites: None
Fulfills: Physical Education Credit

This class will be offered before school from 6 a.m. to 7 a.m. This class is for students to improve on all areas of their personal fitness; muscular strength, muscular endurance, body composition, cardiovascular endurance and flexibility. Students will participate in a variety of activities and units, including: yoga, 5K training, cardio kickboxing, strength and interval training workouts, and other group exercise formats. This class will meet Monday through Thursday every week for a total of 60 classes for the semester. (Semester 1 course)

731 Sports Education
Level: Unleveled
Credits: .5

Grade Level: 11, 12
Prerequisites: None
Fulfills: Physical Education Credit

The Sports Education Program will provide students the opportunity to experience a variety of team sports as an active participant in team games such as basketball, volleyball and soccer. As a participant, the students will learn the skills necessary for successful participation through practice drills and team play. Leadership experience as well as sportsmanship will be emphasized as well as developing and incorporating strategies during game situations.

732 Lifetime Activities**Level: Unleveled****Credits: .5**

During the Lifetime Activities segment of the physical education program, students will experience a wide variety of activities focusing on lifelong participation. These activities may include the racquet sports of tennis, badminton and table tennis, team games such as volleyball and softball, as well as individual or partner activities such as archery, golf, and backyard games.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Physical Education Credit****737 Strength and Conditioning****Level: Unleveled****Credits: .5**

Students will improve many aspects of fitness including body composition, flexibility, mobility, muscular strength, muscular endurance, power and cardiovascular endurance. The daily workouts will vary between strength training, cardiovascular training and High Intensity Interval Training. Each class workout will be done as a group to help motivate and inspire students to work hard. Students will demonstrate advancement through pre- and post-testing, and goal setting in several fitness based assessments. Class participants will learn to personalize their nutrition based on energy requirements and food preferences.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Physical Education Credit****740 Dance Fitness****Level: Unleveled****Credits: .5**

This class will explore a variety of dance activities aimed at achieving a health-enhancing level of fitness. Students will participate in a wide array of ballroom (salsa, merengue, bachata, etc.) and Zumba dances. Students will have the opportunity to create original choreography and teach routines to the class. No dancing experience is necessary, beginner to advanced dancers are welcome.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Physical Education Credit****748 Competitive Sports****Level: Unleveled****Credits: .5**

This is a classroom/gymnasium hybrid course where students are expected to participate in traditional sports activities, complete sports current event related homework assignments, participate in class discussion, and complete written work. Students participating in this course will be expected to put forth maximum effort as a participant in various team sports, such as; basketball, soccer, and volleyball. The course will focus on refining these skills and developing strategies to participate successfully in competition. Teams will be established in the class with practice schedules developed to enhance the skills for competition. Tournaments and healthy competition will take place throughout the course. Competitive Team Sports is for the student who enjoys competing at an intense and high level of competition.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Physical Education Credit****749 Personal Fitness****Level: Unleveled****Credits: .5**

This course builds on the concepts acquired from Fitness courses. Continued emphasis will be placed on properly applied progressive resistance exercising using selected machines, free weights, and rep configuration. Students will become familiar with more advanced methods of strength and cardiovascular conditioning exercises including bootcamp, circuit training, high intensity interval training, cross training, and many others. Each student will be responsible for designing personal and group workouts. Students will track body composition through the use of bioelectrical impedance, skinfold calipers, scales, and tape measures. Students will develop a better understanding of nutrition and the importance of when to eat and what to eat.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Physical Education Credit****756u Unified Physical Education****Level: Unleveled****Credits: .5**

This course will provide an inclusive opportunity for students of all ability levels to learn and participate together in a variety of physical activities. Students will gain knowledge and leadership experience in working with peers both with and without disabilities in a positive, dynamic Physical Education environment. Lifelong activities, team and individual

Grade Level: 9, 10, 11, 12**Prerequisites: Counselor or Administrator Recommendation****Fulfills: Physical Education Credit**

sports, physical fitness and cooperative activities may all be presented as a part of this course. This course requires the recommendation of a guidance counselor or an administrator.

759 Yoga 1

Level: Unleveled

Credits: .5

This class is for students wishing to explore a variety of yoga and meditation techniques. Through the practice of yoga, students will develop strength, flexibility and balance. Students will also learn techniques to reduce stress and increase concentration. Upon completion of this course, students will be able to develop their own yoga routine to encourage personal development and lifelong practice. This class will be mentally relaxing but physically challenging.

Grade Level: 11, 12

Prerequisites: None

Fulfills: Physical Education Credit

736 Yoga 2

Level: Unleveled

Credits: .5

This class is for students wishing to explore a variety of mind/body skills (yoga, meditation, mindfulness, and general stress reducing strategies.) building on their Yoga 1 experiences. Through the practice of these techniques, students will develop a stress management plan to improve emotional and physical health.

Grade Level: 11, 12

Prerequisites: Yoga 1

Fulfills: Physical Education Credit

306 Exercise Physiology ACP

Level: ACP

Credits: .5

Exercise Physiology is a course that explores the human body's physiological response to exercise. During this course, students will learn how to correctly analyze exercise data through experimentation and lab write-ups. This course is physically and educationally demanding and requires students to take part in labs that test VO₂max, Lactate Threshold, Muscular Strength, Endurance, Power, Body Composition and Flexibility. A strong background in first year Biology is recommended.

Grade Level: 11, 12

Prerequisites: None

Fulfills: Physical Education or Science Credit

308 Personal Training ACP

Level: ACP

Credits: .5

This course gives students the foundational knowledge to become a personal trainer by exploring exercise through exercise science, kinesiology, and biomechanics. Students learn correct exercise form and how to teach technique to other individuals in a personal training environment. During this class students will gain the knowledge to become certified personal trainers. Upon completion of Personal Training students may sign up for a nationally recognized personal training certification exam. Note, the certification exam is not included in the course and is a separate cost and time requirement. Successful completion of one or more of these FHS PE courses is recommended; Strength & Conditioning, Personal Fitness and Exercise Physiology.

Grade Level: 11, 12

Prerequisites: None

Fulfills: Physical Education or Science Credit

738 Sports Psychology ACP

Level: ACP

Credits: .5

This course will expose students to the correlation of sport participation and exercise and the effect on a persons' psychological health, development and well-being. Students will also learn how psychological factors affect an individual's physical performance. The course is designed to provide the student with the theory basis of human behavior in sport settings with an emphasis on the mental aspects of behavior. Areas to be discussed are: sport "personology" (including personality, motivation, achievement and attributions), anxiety/arousal, attention focus and social/cultural manifestations of sport including humanism, youth sport, aggression, cooperation/cohesion and leadership.

Grade Level: 11, 12

Prerequisites: None

Fulfills: Practical Arts Credit (Not PE Credit)

672 Introduction to Dance

Level: Unleveled

Credits: .5

Introduction to Dance provides an overview for students to Dance as a discipline. Students become acquainted with basic technique in ballet, modern, jazz, contemporary, improvisation, and salsa dance. Students will develop physical awareness that is critical throughout their lives. Gaining movement skills and finding confidence through movement are a focus of this class. No previous dance experience is necessary. This course may be used for Physical Education

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Fine and Performing Art Credit or PE Credit (Juniors and Seniors)

credit for juniors and seniors.

646 Advanced Dance and Choreography
Level: Unleveled
Credits: 1.0

Grade Level: 10, 11, 12
Prerequisites: Introduction to Dance
Fulfills: Fine and Performing Art Credit
PE Credit (Juniors and Seniors)

Using the techniques mastered in Introduction to Dance, students will apply that knowledge to their own choreography. Advanced Dance and choreography exposes students to a variety of styles, choreographers, repertoire and music. The exploration of the process and essence of the art form helps students develop technical skills, artistry and a broader scope of life as citizens-artists-athletes in a global community. Performances offer a great opportunity and exposure for students to experience what it is like to be part of major productions. In addition to developing performance techniques, each student will be required to choreograph a dance for the class to perform at the end of the course. Dance experience and or training is required. Open to Juniors and Seniors only. This course may be used for Physical Education credit.

747 Lifetime Plus
Level: Unleveled
Credits: .5

Grade Level: 11, 12
Prerequisites: Counselor Recommendation
Fulfills: Physical Education Credit

During Lifetime Plus students will participate in a variety of activities that can be enjoyed throughout their life. These may include racquet sports as well as individual and partner activities. In addition, a component of the course is walking for fitness which is designed to stress the importance of the components of fitness as well as the mental benefits of exercise for maintaining a healthy lifestyle. Class may occasionally meet off campus (Full Year Course-Meeting twice a cycle) This class runs in conjunction with certain AP Science classes.

History and Social Sciences

Maria Sequenzia, Interim Department Chair

The curriculum is designed to enable all students to become life-long learners who are skillful and competent in history and social sciences. As students progress through their course of study, they will learn the history, experiences and perspectives of other nations and cultures, understand the foundations of the United States as a representative democracy, and participate in discussions of local, national, and international concern. Students will develop historical thinking skills in their study of the achievements, contributions, and experiences of various groups of people throughout the United States and the world. Coursework includes opportunities for civic involvement and engagement. Core courses emphasize global comprehension of history, geography, economics and government.

Varied methods of instruction enable students to write effectively, frame relevant questions, shape reasoned arguments, and analyze primary and secondary sources.

Required courses include Modern World History (grade 9), US History 1 (grade 10), and US History 2 (grade 11).

Students are strongly encouraged to broaden their learning experiences through enrollment in elective courses. Elective courses give students the opportunity to engage in topic-specific studies. To provide a continuous setting for learning, history and social science courses integrate the study of several disciplines, allowing students to thoughtfully reflect on and respond to current and past events. Throughout their studies, students are given the opportunity to understand themselves and others.

History and Social Sciences Course Sequence

	Grade 9	Grade 10	Grade 11	Grade 12
Core Courses	Modern World History CP Modern World History ACP Modern World History H	US History 1 CP US History 1 ACP US History 1 H US History 1 AP	US History 2 CP US History 2 ACP US History 2 H US History 2 AP	<ul style="list-style-type: none"> American Law Black and African-American History Economics Exploration of Human Behavior and Society Facing History Gender Studies Global Conflicts Gr. 11&12 History through Popular Media Modern American Politics and Current Issues Psychology Sociology Dual Enrollment Languages
Possible Electives <i>*Semester unless otherwise indicated</i>	Global Conflicts Gr. 9&10	<ul style="list-style-type: none"> American Law Black & African-American History Economics Facing History Gender Studies Exploration of Human Behavior and Society Global Conflicts Gr. 9&10 Modern American Politics and Current Issues Psychology Sociology Dual Enrollment <p><i>*Full-year</i> Art History AP AP European History</p>	<ul style="list-style-type: none"> American Law Black & African-American History Economics Exploration of Human Behavior and Society Facing History Gender Studies Global Conflicts Gr. 11&12 History through Popular Media Modern American Politics and Current Issues Psychology Sociology Dual Enrollment Exploring World Languages <p><i>*Full-year</i> AP Psychology AP Government and Politics AP European History AP African American Studies AP Art History</p>	<p><i>*Full-year</i> AP Psychology AP Government and Politics AP European History AP African American Studies AP Art History</p>

Course Descriptions

422/423/424 Modern World History
Level: Honors, ACP, CP
Credits: 1

In this course students interpret and analyze the impact of significant world events starting c. 1800. Study includes units on revolutions in Europe, the Americas, and Asia. The course also explores industrialization, imperialism, totalitarianism, world wars, and ends with a study of modern global issues. The development of historical thinking skills are emphasized in order to understand historical events and the world today.

Grade Level: 9
Prerequisites: None
Fulfills: History Credit

402/403/404 United States History I
Level: Honors, ACP, CP
Credits: 1

This course represents a political, sociocultural, and economic study of the United States from 1400 - 1890. Students will explore identity in the context of the developing American landscape as they engage with themes of culture, colonization, government, and resistance. Students will be empowered to be critical thinkers, equity advocates, and engaged citizens as they analyze US History through different lenses. Through this process, students will examine diverse experiences and perspectives, and reflect on the ways in which power is used, maintained, and challenged in early US history. The curriculum focuses on change and continuity over time to gain the historical skills of evaluation and comparison from multiple narratives.

Grade Level: 10
Prerequisites: Modern World History
Fulfills: History Credit

432/433/434 United States History II
Level: Honors, ACP, CP
Credits: 1

This course represents a political, sociocultural, and economic study of the United States from 1890 - the present. Topics include immigration patterns, the changing role of government, and shifts in foreign policy. Students will be empowered to be critical thinkers, equity advocates, and engaged citizens as they analyze US History through different lenses. Through this process, students will examine diverse experiences and perspectives, and reflect on the ways in which power is used, maintained, and challenged in modern US history. Particular emphasis will be placed on persuasive writing, historical analysis, and interpersonal communication skills. This course includes student engagement in a Civics project.

Grade Level: 11
Prerequisites: US History I
Fulfills: History Credit

ADVANCED PLACEMENT COURSES

431 AP US History 1
Level: Advanced Placement
Credits: 1

The first of two sequential Advanced Placement courses offered to highly motivated students who are committed to two years of study in US History. Major emphasis is placed on historical interpretation by the use of primary and secondary sources, analysis of historical thought, and training in historical thinking skills and research. Students will learn about the achievements and contributions of various groups who shape the United States today. Chronologically, this course runs from 1400-1877. Students will take the AP United States History exam at the end of AP US History II course.

Grade Level: 10
Prerequisites: Modern World History
Fulfills: History Credit

441 AP US History 2
Level: Advanced Placement
Credits: 1

This is the second of two sequential Advanced Placement courses offered to those students who have completed AP US History I. Major emphasis will continue to be placed on historical interpretation by the use of primary and secondary sources, analysis of major schools of historical thought, and training in historical research. Students will learn about the achievements and contributions of various groups who shape the United States today. Chronologically, this course spans the period from Reconstruction to the present. US History I/II AP will prepare students for the Advanced Placement examination in the spring. This course includes student engagement in a Civics project.

Grade Level: 11
Prerequisites: AP US History 1
Fulfills: History Credit

440 AP European History
Level: Advanced Placement
Credits: 1

Grade Levels: 10, 11, 12
Prerequisites: Modern World History
Fulfills: History Credit

This course, covering the late Middle Ages to the early 21st century, is designed to provide students with an in-depth exploration of the history of Europe and its relationship to World History. From religious wars, the Industrial Revolution, the rise of fascism, to the challenges of Europe in the 21st century, this course will give students a greater understanding of the development of major world powers and their impact on the global community. Students will prepare for the Advanced Placement exam in the spring through the analysis of primary and secondary documents and development of historical thinking skills, as well as practice exams including document-based questions.

459 AP United States Government and Politics
Level: Advanced Placement
Credits: 1

Grade Level: 11, 12
Prerequisites: Modern World History
Fulfills: History Credit

Designed for students that wish to take a course in political science/government at a level that approximates to a college introductory course, this course is an AP level survey of American government and political thought. Some topics include: the Constitution and foundation of American democracy, American political culture and landscape, the structure and function of the federal government, the power of special interests and the media, your rights as a citizen and a student, civil liberties and civil rights, landmark Supreme Court cases, and social, economic, and foreign policy. Students are prepared to take the AP test in May.

471 AP African American Studies
Level: Advanced Placement
Credits: 1

Grade Level: 11, 12
Prerequisites: Modern World History
Fulfills: History Credit

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora. 10th and 11th grade students must take this course concurrently with their USI or USII course. This course does not meet the US History I or US History II requirement.

472 AP Psychology
Level: Advanced Placement
Credits: 1

Grade Level: 11, 12
Prerequisites: Modern World History
Fulfills: History Credit

Designed for students who wish to study human behavior and mental processes at a level that approximates an introductory college course, AP Psychology stresses a scientific approach to the study of psychology. The course exposes students to a wide range of concepts, research findings and psychological theories while emphasizing application so the students can see how these relate to their own lives. Topics include the historical development of the schools of psychology, research methods, the biological determinants of behavior, states of consciousness, sensation and perception, conditioning and learning, cognition and memory, testing individual differences, personality development, clinical psychology, and social psychology. Students are prepared to take the AP test in May.

475 AP Art History
Level: Advanced Placement
Credits: 1

Grade Level: 10, 11, 12
Prerequisites: Modern World History
Fulfills: History or Fine Art Credit

This course is designed for students who want an in-depth look at art periods of the ancient world through postmodernism. Students gain knowledge of architecture, sculpture, and painting, as well as other forms within diverse historical and cultural contexts. Students critically analyze major art forms of artistic expression from the past and present and from a variety of European and non-European cultures. Students develop an understanding of artworks in their contexts, considering issues of patronage, gender, politics, religion, and ethnicity. Throughout the study of AP Art History, students examine how and why the work looks the way it does, what it means within its particular context, and how and why it has meaning. This is a visual based course with emphasis on class discussion. Students will also be able to create art for enjoyment and enrichment. **This course fulfills a Fine Arts requirement.*

DUAL ENROLLMENT COURSES

470 Introduction to Sociology: Dual Enrollment

Level: College

Credits: 1.0 / College (*Runs as a Semester Course)

This rigorous course is an introduction to the basic concepts, research, and theories sociologists use to increase our understanding of social behavior and human societies. Students discuss such topics as culture, social interaction, social inequality, crime, class, race and ethnic relations, and family, as well as various social problems in modern society. *This class is offered for dual credit with Framingham State University, and is taught by both FHS and FSU faculty. Students must earn a grade of C or higher to earn dual credit.*

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

ELECTIVES

NOTE: The following courses do NOT fulfill the World History and US History requirements. They remain available as elective courses for the grades indicated.

454 Modern American Politics and Current Issues

Level: ACP

Credits: .5

In this discussion-based course, students will take a deeper dive into the most pressing political, economic, social, religious, and military issues affecting their daily lives in order to strengthen their position as civically engaged members of society. Using the news as a template that guides the course, students will learn how current issues are situated historically and globally in order to better understand the world in which they live. Particular emphasis will be on modern American politics, the role and function of local, state, and federal governments, competing economic theories, fiscal and monetary policy, comparative politics, ideologies, critical analysis of news media, the power of special interests, and civil liberties and civil rights.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

460 American Law

Level: ACP

Credits: .5

This course covers the basics of the American legal system, emphasizing trial procedure, laws, constitutional rights, criminal courts, civil courts, prisons and sentencing. Also briefly covered are family law, consumer law, housing law and employment law. This course will utilize mock trials and rely heavily on current events related to the legal system.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

461 Facing History

Level: ACP

Credits: .5

This course explores general notions of human rights by looking at the history of the Holocaust and genocides in Armenia, Cambodia, Rwanda and the ongoing genocide in Darfur. The course moves beyond a simple study of history but instead, examines these events through the lens of human behavior. We will look at the roles individuals played and the choices they made in an effort to understand exactly what it means to be human at the beginning of the 21st century. The course concludes with an examination of social activism and the end goal: to provide students with the tools necessary to empower them to make change in their lives and in the world they live in. This course will combine history, literature, philosophy, psychology, film, primary source documents, and interactive activities to help you engage in the material.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

462 Global Conflicts (For Grades 9 & 10 only)

Level: ACP

Credits: .5

This course, designed specifically for Grade 9 & 10 students, examines some of the most significant world conflicts from the modern era. Topics include the War on Terror, CIA involvement in foreign nations, border disputes, terrorism, totalitarian dictatorships, conflict resolution, and many more. The course is broken down into geographic regions of study (Middle East, Asia, Latin America, Africa), but focuses on specific conflicts. (Semester course, open to grade 9

Grade Level: 9, 10

Prerequisites: None

Fulfills: History Credit

only). This course must be taken concurrently with Modern World History. This course does not meet the Modern World History requirement.

463 Global Conflicts (Grades 11 & 12)

Level: ACP

Credits: .5

This course examines some of the most significant world conflicts from the modern era. Topics include the War on Terror, CIA involvement in foreign nations, border disputes, terrorism, totalitarian dictatorships, conflict resolution, and many more. The course is broken down into geographic regions of study (Middle East, Asia, Latin America, Africa), but focuses on specific conflicts. Students who previously took Global Conflicts 9 are not eligible to take this course.

Grade Level: 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

464 Psychology

Level: ACP

Credits: .5

This is an introductory course in the scientific study of human behavior that includes the aims and methods of psychology, the physiological functions of the brain, and the principles of learning, memory, emotions, motivation, and personality. Emphasis is placed on the role of experimentation, writing assignments, and the application of psychology in the lives of the students.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

465 Exploration of Human Behavior and Society

Level: ACP

Credits: .5

This course helps students develop an understanding of how groups of people act and study social problems. This is a semester-long course that is discussion and project based. Areas of study include: research methods, culture, gender, deviance, collective behavior, privilege, social class, race, and socialization.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

466 Economics

Level: ACP

Credits: .5

This course familiarizes students with certain basic economic principles and laws governing our economic system. Highlights include tenets of capitalism, supply and demand, entrepreneurship and running a business, stocks, bonds and investing, labor and the changing workplace, the US banking system and the global economy. The course utilizes many simulations including a Stock Market Game competition.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

467 History Through Popular Media

Level: ACP

Credits: .5

This course explores events related to World and US History and looks at how history shapes and reflects our society. Films and other media are analyzed and viewed within historical context, and allow students to understand time periods in a deeper way than before. Via analysis of these media, personal reaction papers, projects, and daily participation, we will investigate a number of political, social, and economic themes to better understand the past as well as the world we live in today.

Grade Level: 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

468 Black and African American History ACP

Level: ACP

Credits: .5

This course will provide students with the space to analyze and discuss a variety of themes, concepts, patterns, and significant events of Black and African American history in the United States. Within these units, students will examine significant moments of the four hundred plus years of the Black and African-American experiences, from origins of Africa, to the initial establishment of the trans-Atlantic slave trade to the present day. Students will also be delving into deep discussions surrounding the construction of race and race relations throughout American history, and the modern-day consequences of racial divisions in the United States. Students will participate in discussions, interpret and analyze this history through discussions within the class, projects, activities, writing assignments, and debates.

Grade Level: 10, 11, 12

Prerequisites: Modern World History

Fulfills: History Credit

469 Gender Studies**Level: ACP****Credits: .5**

This course is a semester-long introduction to major themes in Gender Studies. Topics include masculinity, LGBTQIA+ rights, feminism, glass ceiling, history of activism, understanding of LGBTQIA+ terms, identity, current events, media portrayal of different genders, and health consequences for all genders. Students will have the opportunity to have a say in what they will study throughout the semester. A major goal for this class is to examine how society thinks about gender and challenge traditional ideas about femininity and masculinity. A variety of instructional methods and assessments will be utilized to meet the needs of all students.

Grade Level: 10, 11, 12**Prerequisites: Modern World History****Fulfills: History Credit****135 Exploring World Languages****Level: ACP****Credit: .5****Prerequisites: Students have successfully fulfilled their two-year World Language Requirement**

Language is all around us. It allows us to communicate. But how we use language changes based on the situation, and each of the world's 7,000 languages will use language differently. In this course, we will look at what language is, what languages exist in the world (beyond the ones you're most likely familiar with), and how language and culture are linked. **This course is taught in English. This course also can count as a World Language credit.**

Grade Level: 11,12**Fulfills: History Credit or World Language credit**

AP Capstone and Library/Media

Alison Courchesne, Library Media Specialist

Heather Conroy, English Teacher

Mary Carmen Medina Zamora, Spanish Teacher

The mission of the Framingham High School Library Media Center and the AP Capstone Department is to provide equitable resources and opportunities to all members of the FHS community and to support learners in the exploration of their unique passions. The Library Media Center supports the implementation of the Massachusetts Digital Literacy Standards, which prepare students with skills essential for college and career readiness. Information literacy and technology skills are taught to classes and 1:1 to individual students. The Library Media Center's multilingual collection of 21,000 print volumes and digital research resources are designed to meet the academic needs and personal interests of all students and faculty.

The AP Capstone curriculum fosters critically-thinking, responsible and literate citizens by teaching students how to use the "QUEST" framework: question, understand, evaluate, synthesize and transform information. Students may elect to follow the AP Capstone sequence of courses. There is no prerequisite for AP Seminar; however, students should discuss the requirements with their School Counselor before registering in AP Seminar. Students must pass AP Seminar in order to register for AP Research.

Student writing in AP Capstone courses will adhere to the format of the Framingham High School Research Handbook. All student research and work is kept in digital portfolios for the duration of the Capstone course sequence so that students can monitor their own progress. Class discussions and cooperative learning are major components of AP Seminar classes, and all students are expected to participate fully. AP Research is offered for those students who have successfully completed AP Seminar and who wish to pursue an independent path of scholarly research

Course Descriptions

010 AP Seminar

Level: Advanced Placement

Credits: 1.0

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the QUEST inquiry framework, students practice reading and analyzing journal articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

*AP Seminar can be taken for credit as a History elective, a Practical Art, or an English. In the 10th grade, AP Seminar can be taken for elective credit in addition to English 2. Students taking AP Seminar in grades 11 or 12 may count it as their primary English credit.

Grade Level: 10, 11, 12

Prerequisites: None

Fulfills: See Below*

010S AP Seminar in Spanish

Level: Advanced Placement

Credits: 1.0

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the QUEST inquiry framework, students practice reading and analyzing journal articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

*AP Seminar in Spanish is an option for students in the Dual Language program, ESL, or World Language who are fluent in Spanish. It can be taken for credit as a History elective, a Practical Art, or Dual Language, ESL or World Language.

Grade Level: 10, 11, 12

Prerequisites: None

Fulfills: See Below*

011 AP Research

Level: Advanced Placement

Credits: 1.0

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills acquired in the AP Seminar course: learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product, where applicable) and a presentation with an oral defense.

*AP Research credit is granted in the Department that most closely matches the area of the student's chosen field of study.

Grade Level: 11, 12

Prerequisites: AP Seminar

Fulfills: See Below* – Department Head Approval

Mathematics

Mary Fitterer, Department Chair

A solid foundation in mathematics is essential in today’s technological society. The study of mathematics helps develop logical thinking and reasoning skills that are central to our daily lives. Success in mathematics, however, is not based solely on ability, but also on persistence and effort. All students will achieve mathematical competence through a comprehensive program aligned with the Common Core State Standards and Massachusetts Curriculum Frameworks that emphasizes problem-solving, communicating, reasoning, attention to precision, making connections, and effective use of technology.

Our program stresses conceptual understanding over standard algorithms. Students are encouraged to take four years (eight semesters) of mathematics.

Students will be expected to communicate their knowledge of mathematics through a variety of assessment tools. As students are exposed to the many connections within the disciplines of mathematics and in the real world, they will begin to see and understand the importance of mathematics.

Course Sequence

Core Curriculum Options			
Grade 9	Grade 10	Grade 11	Grade 12
Geometry Honors Geometry ACP Geometry CP *Algebra 1 H	Algebra 2 Honors Algebra 2 ACP Algebra 2 CP Algebra 1 H Algebra 1 ACP Integrated Math CP	Pre-Calculus Honors Precalculus ACP Precalculus CP Algebra 2 H Algebra 2 ACP Algebra 2 CP AP Statistics Dual Enrollment Quantitative Reasoning (Semester) AP Microeconomics/Macroeconomics	AP Calculus BC AP Calculus AB Calculus ACP AP Statistics Statistics and Quantitative Reasoning ACP Pre-Calculus Honors Precalculus ACP Precalculus CP (Semester) Dual Enrollment Quantitative Reasoning (Semester) AP Microeconomics/Macroeconomics
* Students in 9th grade may take Geometry and Algebra 1 H concurrently <u>by teacher recommendation only.</u>		Students have the option of taking PreCalculus and AP Statistics concurrently this year.	Students have the option of taking Precalculus or Calculus and Statistics concurrently this year.
Math Electives (Semester Courses) Problem Solving CP (all grades) Statistics CP (11,12) Intro to Sports Statistics ACP (11,12) Math Strategies CP (11,12) Financial Literacy and Quantitative Reasoning CP (11,12)		Computer Science Courses Intro to Programming Honors (all grades) Intro to Programming ACP (all grades) Computer Science A AP (Grades 10-12) Computer Science Principles AP (Grades 10-12) Data Analysis with Spreadsheets and Databases ACP (Grades 10-12)	

COURSE OFFERINGS

201 Geometry H

Level: Honors

Credits: 1.0

This course is for students who have successfully completed Algebra 1 in the eighth grade. It emphasizes logical arguments in plane geometry, geometric applications of algebra, solid and coordinate geometry, and an introduction to trigonometry. It is the first course for students wishing to enroll in our challenging coursework in mathematics, culminating with calculus in the twelfth grade. Required: Passing Algebra 1 in Grade 8 (85% recommended)

Grade Level: 9

Prerequisites: Algebra I

Fulfills: Math Credit

202 Geometry ACP

Level: ACP

Credits: 1.0

The course develops techniques of logical reasoning through the study of geometric figures. Plane and solid geometric facts are determined through inductive and deductive processes, which stress original and creative thinking. Coordinate geometry and trigonometry are introduced. Recommended: Passing Algebra 1 or Integrated Algebra in 8th grade, (75% or higher is recommended) (Full year course, open to grades 9,10,)

Grade Level: 9

Prerequisites: None

Fulfills: Math Credit

213 Geometry CP

Level: CP

Credits: 1.0

This course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included along with inductive and deductive reasoning. Topics include angle relationships, transformations, triangles, area, similarity, circles, polygons, geometric solids, as well as an introduction to trigonometry.

Grade Level: 9,

Prerequisites: None

Fulfills: Math Credit

205 Algebra 1 Honors

Level: Honors

Credits: 1.0

This is a rigorous course that emphasizes foundational algebraic and problem-solving skills. The course focuses on solving challenging, practical problems, and representing and analyzing situations using symbols, graphs, tables or diagrams. This course introduces abstract concepts by using symbolic notation to represent quantitative relationships in general terms. Course content focuses on the real number system; operations on polynomials; reasoning with equations and inequalities; building and interpreting functions; linear, quadratic, and exponential modeling; statistics and probability.

Grade Level: 9,10

Prerequisites: Geometry or Teacher Recommendation (9th grade)

Fulfills: Math Credit

203 Algebra 1 ACP

Level: ACP

Credits: 1.0

This is a rigorous course in algebra, which introduces abstract concepts by using symbolic notation to represent quantitative relationships in general terms. Emphasis is on the real number system; operations on polynomials; reasoning with equations and inequalities; building and interpreting functions; linear, quadratic, and exponential modeling; statistics and probability.

Grade Level: 10

Prerequisites: Geometry

Fulfills: Math Credit

224 Integrated Math CP

Level: CP

Credits: 1.0

This course combines standards-based topics in Algebra and Geometry. Students will advance their knowledge and understanding of linear equations, functions, patterns and relationships, and quadratic equations. Students will also explore relationships in parallel lines, properties, and areas of Geometric figures, and experience an introduction to data and statistics. This course is a good fit for students who need further work with their algebraic and geometric skills in order to prepare for the Math MCAS Exam.

Grade Level: 10,11,12

Prerequisites: None

Fulfills: Math Credit

211 Algebra 2 H
Level: Honors
Credits: 1.0

Grade Level: 10, 11, 12
Prerequisites: Algebra 1 and
Geometry with 85% or higher
Fulfills: Math Credit

This rigorous course builds on a strong foundation of Algebra I skills and focuses on the analysis of different types of functions. These functions include, but are not limited to, polynomial, rational, exponential, and logarithmic. Students will be exposed to different number sets, explore conic sections, and be introduced to trigonometry. Emphasis will be placed on the ability to derive formulas and prove assertions. Students will be required to apply the knowledge they gain from the curriculum in order to persevere in solving extension problems. Algebra 2 Honors is designed to give students a strong foundation for the Precalculus Honors course.

212 Algebra 2 ACP
Level: ACP
Credits: 1.0

Grade Level: 10, 11, 12
Prerequisites: Algebra 1 and
Geometry with 80% or higher
Fulfills: Math Credit

This course continues the study of the properties and structure of the real number system. The use of symbolic notation is emphasized and applied to problem-solving. Areas of study include the complex number system,, polynomial and rational expressions, modeling, function analysis, probability, and statistics. Prerequisites: Successful Completion of Algebra 1 and Geometry (Grade of 80% or higher in ACP recommended) (Full year course, open to grades 10, 11 ,12)

223 Algebra 2 CP
Level: CP
Credits: 1.0

Grade Level: 10, 11, 12
Prerequisites: Algebra 1 and Geometry
Fulfills: Math Credit

The CP Algebra 2 course includes topics such as operations with rational and complex numbers, factoring, solutions of equations and inequalities, coordinate geometry, relations and functions, quadratic functions, systems of equations, exponents, logarithms, and conic sections. Concepts of problem-solving will be introduced. This course treats the Algebra 2 curriculum in a less rigorous manner than Algebra 2 ACP.

221 PreCalculus H
Level: Honors
Credits: 1.0

Grade Level: 11, 12
Prerequisites: Algebra 2 with 85% or higher
Fulfills: Math Credit

This is a precalculus course for those students in the junior year that have a strong motivation in mathematics. It is a rigorous treatment of elementary functions with an emphasis on mathematical analysis. Analytical geometry and higher algebra topics such as series and limits will be included. Successful completion of Algebra 1, Geometry, and Algebra 2.

222 PreCalculus ACP
Level: ACP
Credits: 1.0

Grade Level: 11, 12
Prerequisites: Algebra 2 with 80% or higher
Fulfills: Math Credit

This is a course for students who wish to acquire a deeper and more expanded knowledge of mathematics. It will include mathematical analysis based on the algebraic, trigonometric, and logarithmic functions. Advanced algebra and introductory probability will be considered. Emphasis will be placed on abstract concepts as well as on skills in practical applications.

234 PreCalculus CP
Level: CP
Credits: 1.0

Grade Level: 11, 12
Prerequisites: Algebra 2 with 70% or higher
Fulfills: Math Credit

This is a course for students who wish to acquire a deeper and more expanded knowledge of mathematics beyond Algebra 2. It will include mathematical analysis based on algebraic, trigonometric, and logarithmic functions. It will also include studies in probability and statistics. Emphasis will be placed on abstract concepts as well as on skill in practical applications.

233 Calculus ACP
Level: ACP
Credits: 1.0

Grade Level: 12
Prerequisites: PreCalc
Fulfills: Math Credit

This course in the accelerated series provides an introduction to calculus. It is intended to prepare students for more rigorous college calculus courses. Course topics include analytic geometry, elementary functions, limit theory, and

methods of differential and integral calculus with applications.

228 Statistics and Quantitative Reasoning ACP
Level: ACP

Credits: 1.0

This course combines introductory statistical topics with real-world financial and mathematical applications. Statistical topics include analysis of one and two variable data, sampling and experiment design, probability, sampling distributions, and inference testing. The course will also cover estimation, managing personal finances (checking accounts, credit cards, income taxes, auto loans, and student loans), present and future budget analysis, and time value of money applications. This course is a good fit for students planning to major in Business, Sociology, or Psychology, as well as any student who is interested in the practical use of mathematics. Prerequisites: Successful completion of Algebra 2. (Full-year course, open to grade 12 students or grade 11 students who are also enrolled in Precalculus)

Grade Level: 11 or 12, when concurrently enrolled in PreCalc

Prerequisites: Algebra 2

Fulfills: Math Credit

ADVANCED PLACEMENT COURSES

231 AP Calculus BC

Level: Advanced Placement

Credits: 1.0

This course follows the Advanced Placement BC syllabus of the College Board. This is a college-level course, which is offered to qualified students to prepare for the Advanced Placement Examination (Level BC) in calculus. It will give substantial training in differential and integral calculus and related analytic geometry. As a college-level course, the teaching and assignments will be of college depth and length.

Grade Level: 12

Prerequisites: PreCalc H with 85% or higher

Fulfills: Math Credit

232 AP Calculus AB

Level: Advanced Placement

Credits: 1.0

This course follows the Advanced Placement AB syllabus of the College Board. Included in the course are the study of elementary functions, limit theory, and the methods of differential and integral calculus together with applications. This course also prepares students for the Advanced Placement Calculus AB examination in May.

Grade Level: 12

Prerequisites: PreCalc H with 75% or higher OR

PreCalc ACP with 85% or higher

Fulfills: Math Credit

238 AP Statistics

Level: Advanced Placement

Credits: 1.0

Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Ideas and computations presented in this course have immediate links and connections with actual events. Calculators will simplify calculations and allow students to focus deeply on the concepts involved in statistics. Topics include analyzing one and two-variable data, probability, sampling distributions, and statistical inference. This course prepares students for the Advanced Placement examination in Statistics.

Grade Level: 11, 12

Prerequisites: Algebra 2 with 80% or higher

Fulfills: Math Credit

522 AP Computer Science Principles

Level: Advanced Placement

Credits: 1.0

This course introduces you to the essential ideas of computer science and helps you understand how computing and technology can influence the world around you. As part of this course, you will be exposed to a broad range of computing tools and skills while creatively addressing real-world issues and concerns. You will conceive and implement digital projects, utilizing some of the same processes that writers, programmers, engineers, designers, and other creators use to bring their ideas to life. This course also includes problem-solving, working with data, and understanding the structure of the Internet and how it works. This course meets the Practical Arts requirement.

Grade Level: 10, 11, 12

Prerequisites: Year Long Math Class

Fulfills: Practical Art or Math Credit

242 AP Computer Science A
Level: Advanced Placement
Credits: 1.0

Grade Level: 10,11, 12
Prerequisites: B- or higher in Intro to Programming
ACP or Honors
Fulfills: Practical Art or Math Credit

This is an Advanced Placement (AP) course for students who have successfully completed Intro to Programming (formerly C++ Programming Part I). Fundamental topics of this course include: the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes Object-Oriented Programming and Design using the Java programming language. This course is equivalent to a first-semester college-level computer science course. Due to a very demanding curriculum, this is a course only for mature students who are serious about programming.

239 AP Microeconomics/Macroeconomics
Level: Advanced Placement
Credits: 1.0

Grade Level: 11,12
Prerequisite: B- or higher in Algebra 2
Fulfills: Math or History Credit

This course is designed to give students a thorough understanding of the principles of economics at both the individual and global levels. Topics include basic economic concepts, product markets, factor markets, market failure and government, measurement of economic performance, national income and price determination, financial sector, stabilization, growth, and International trade and finance. This course mirrors two semesters of college economics, and therefore would be a good fit for students interested in pursuing business, economics, or math degrees at a higher level.

DUAL ENROLLMENT COURSES

220d Quantitative Reasoning/Dual Enrollment
Level: College
Credits: 1.0

Grade Level: 11, 12
Prerequisites: Algebra 1, Geometry and Algebra 2
Fulfills: Math Credit

This course is a college level course where students who earn a 70% or above will receive credit from both Framingham High School and Framingham State University. This is a course in quantitative problem solving as it relates to realistic scenarios, with the goal of producing college and career-ready individuals capable of making decisions informed by data. Topics include set theory, advanced Algebra, personal finance, counting and probability, statistics, and voting and apportionment.

ELECTIVES

229 Statistics CP
Level: CP
Credits: .5

Grade Level: 11, 12
Prerequisites: Algebra 2
Fulfills: Math Credit

Statistical topics include analysis of one and two-variable data, sampling and experimental design, and probability. This course is a good fit for students who are interested in the practical use of mathematics. Prerequisites: Successful completion of Algebra 1 and Geometry.

257 Intro to Sports Statistics ACP
Level: ACP
Credits: .5

Grade Level: 10,11,12
Prerequisites: Algebra 1
Fulfills: Math Credit

In this course, students will explore statistics and analytics with an emphasis on their practical use in sports. Topics will include data collection, statistical methods for comparing performances of teams and individuals, and an exploration of careers in sports statistics. This course is a good fit for students who have a general interest in athletics and statistical analysis.

256 Financial Literacy and Quantitative Reasoning CP
Level: CP
Credits: .5

Grade Level: 11, 12
Prerequisites: Algebra 2
Fulfills: Math Credit

This course covers reasoning with numbers, estimation, managing personal finances (checking accounts, credit cards, income taxes, auto loan, and student loans), present and future budget analysis, and time value of money applications. Prerequisites: Successful completion of Algebra 1 and Geometry. Recommended: Successful completion of Algebra 2.

220a Math Strategies CP

Level: CP

Credits: .5

This course places emphasis on mastery of skills to help students prepare for future math courses at FHS or in college. Topics include operations with rational and complex numbers, factoring, solutions of equations and inequalities, relations and functions, quadratic functions, systems of equations, exponents, and logarithms. Emphasis will be placed on preparing for mathematics college placement exams.

Grade Level: 11, 12

Prerequisites: Geometry and Algebra 2

Fulfills: Math Credit

258 Problem Solving CP

Level: CP

Credits: .5

This course is designed to develop and improve the problem-solving strategies that are utilized in educational coursework and also in the workplace. Students will learn how to work cooperatively in groups. They will develop communication skills through presentations, written work, and projects. The methods covered include drawing a diagram, systematic lists, eliminating possibilities, and matrix logic. Working with and developing strategies for jigsaw puzzles, as well as cooperative and competitive games will be a part of the course. This course does not require any previous mathematics background beyond Algebra 1. It is meant to improve overall thinking. And PSAT, SAT, and MCAS test scores should improve as a result of this course.

Grade Level: 9, 10, 11, 12

Prerequisites: Geometry and Algebra 2

Fulfills: Math Credit

241 Intro to Programming Honors

Level: Honors

Credits: .5

Intro to Programming Honors introduces the new computer science student to the fundamentals of computer programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Students will learn to design, code, and test their programs while applying mathematical concepts. Topics will include: variables, input and output, conditional statements, loops and functions. This course is faster-paced than the ACP level and will cover greater depth and breadth. This course is designed for motivated students with strong logical-reasoning skills as well as academic maturity. The course will be taught in Python. This course meets the prerequisite requirement for AP Computer Science A.

Grade Level: 9, 10, 11, 12

Prerequisites: Completion of Algebra 1 and co-enrolled in Honors Math

Fulfills: Practical Art or Math Credit

243 Intro to Programming ACP

Level: ACP

Credits: .5

Intro to Programming ACP introduces the new computer science student to the fundamentals of computer programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Students will learn to design, code, and test their programs while applying mathematical concepts. Topics will include: variables, input and output, conditional statements, loops and functions. The course will be taught in Python. This course meets the prerequisite requirement for AP Computer Science A.

Grade Level: 9, 10, 11, 12

Prerequisites: Algebra 1

Fulfills: Practical Art or Math Credit

260 Data Analysis with Spreadsheets and Databases ACP

Level: ACP

Credits: .5

This course is for both the new and the experienced computer science student. No prior experience with computer science or spreadsheets is necessary. The first term will focus on using spreadsheets to analyze data starting from basic calculations and extending to conditional formatting, pivot tables, and basic scripts. The second half of the course will transition to relational databases and SQL covering topics including database design, queries, and tables.

Grade Level: 10, 11, 12

Prerequisites: Successful Completion of 1 year of HS Math

Fulfills: Math or Practical Art Credit

Science Department

Dan Sirpenski, Department Chair

Science can inform, enrich, and even save our lives. We believe that science is a lifelong endeavor. The science faculty is dedicated to offering a program of science education that will prepare the student for a lifetime of curiosity. A core curriculum of Biology, Chemistry, Environmental Earth Science and Physics has a strong laboratory component. Each core course provides a distinct manner of analyzing natural phenomena. Through their studies in science, students build the tools that scientists use to explain the world around us.

All 9th grade students will take Biology as their first high school science course. The Biology course prepares students to pass the state science graduation requirement through the MCAS Biology exam at the end of the school year. All 10th grade students will move on to chemistry. For Grade 11 students, options broaden to Environmental Earth Science, Physics and 3 different AP Science Courses. Full year Environmental Earth Science, Physics, Honors Engineering by Design, all 4 AP Science Courses and Human Anatomy & Physiology are options for grade 12 students. Grade 12 students can also choose from a list of semester-long courses that focus on different areas of science; Oceanography, Forensics, Environmental Science & Animal Behavior.

Advanced Placement courses and elective courses enable students to pursue more concentrated studies in a particular area of interest. AP courses provide students with their first experience of a rigorous college course in science. The electives enrich the experience of the study of science and encourage students to pursue science careers. The students of Framingham High School have a science program that will start them on a path of discovery and encourage sustainability, curiosity, responsibility and inclusion.

Science Course Sequence Options

Grade 9	Grade 10	Grade 11	Grade 12
Biology H Biology ACP Biology CP	Chemistry H Chemistry ACP Chemistry CP	Environmental Earth H Environmental Earth ACP Environmental Earth CP Physics H Physics ACP Physics CP AP Biology AP Chemistry AP Environmental Exercise Physiology (semester) Personal Training (semester) Forensics (semester) Oceanography (semester) Animal Behavior (semester) Vertebrate Zoology (semester) Food Chemistry (Semester)	Environmental Earth H Environmental Earth ACP Environmental Earth CP Physics H Physics ACP Physics CP AP Biology AP Chemistry AP Environmental AP Physics C Engineering by Design Human Anatomy & Physiology Animal Behavior (semester) Environmental Science (semester) Forensics (semester) Oceanography (semester) Exercise Physiology (semester) Personal Training (semester) Food Chemistry (semester) Vertebrate Zoology (semester)

Course Descriptions

303 Biology H
Level: Honors
Credits: 1.0

This course is a comprehensive and challenging introduction to biological science, with a strong molecular emphasis. Topics include basic biochemistry, cell structure and function, DNA structure and function, genetics, evolution, and ecology. Comprehensive laboratory investigations teach important biological techniques, analytical skills, and reinforce major concepts. Some dissections are included. Strong note taking, study, and writing skills are recommended. Students will be prepared for the MCAS Biology Exam.

Grade Level: 9
Prerequisites: None
Fulfills: Science Credit

304 Biology ACP
Level: ACP
Credits: 1.0

This course is a comprehensive introduction to the study of life. Students will learn through both classroom and laboratory interactions that introduce and investigate the major concepts of biology. Specific topics include biochemistry, cell structure and function, photosynthesis and cellular respiration, cell division, genetics, protein synthesis, evolution, ecology & human biology. Students will be prepared for the MCAS Biology Exam. The lab activities include dissections.

Grade Level: 9
Prerequisites: None
Fulfills: Science Credit

305 Biology CP
Level: CP
Credits: 1.0

This course is a comprehensive introduction to the study of life. Students will learn through both classroom and laboratory interactions that introduce and investigate the major concepts of biology. Specific topics include biochemistry, cell structure and function, photosynthesis and cellular respiration, cell division, genetics, protein synthesis, evolution, ecology & human biology. This course follows the same sequence as ACP biology. However, it abbreviates some content in order to allow extra time for the development of critical thinking and study skills. Students will be prepared for the MCAS Biology Exam. Dissections are included.

Grade Level: 9
Prerequisites: None
Fulfills: Science Credit

323 Chemistry H
Level: Honors

Credits: 1.0

This course is a comprehensive introduction to chemistry, including a rigorous treatment of chemical reactions, stoichiometry, kinetic theory, phases of matter, atomic structure and bonding, thermochemistry, kinetics, equilibrium, and oxidation-reduction reactions. This laboratory-centered program will emphasize understanding of ideas and concepts through data analysis.

Grade Level: 10
Prerequisites: Co-Enrollment in Honors Math or very strong performance in ACP Math
Fulfills: Science Credit

324 Chemistry ACP
Level: ACP

Credits: 1.0

Chemistry is the quantitative study of matter, energy, and its interactions. This course is an overview of chemistry, including chemical reactions, stoichiometry, kinetic theory, phases of matter, atomic structure and bonding, thermochemistry, kinetics, and equilibrium. This laboratory-centered program will emphasize the interpretation of data to reinforce concepts and the development of quantitative thinking.

Grade Level: 10
Prerequisites: Should be enrolled in ACP Algebra 1 or 2
Fulfills: Science Credit

325 Chemistry CP
Level: CP
Credits: 1.0

Chemistry uses a hands-on approach to make connections between chemical concepts and the world around us. This course focuses on chemistry in context. Students learn about chemical principles through an integrated laboratory component and analysis of experimental data. Students should have completed algebra 1.

Grade Level: 10
Prerequisites: None
Fulfills: Science Credit

311 Environmental Earth: It's History & Future H**Level: Honors****Credits: 1.0**

Students should have strong independent working skills and be confident with their math ability. This course explores the major systems of our planet, including climate, weather, geology, and the oceans in greater depth than ACP Environmental Earth. We will learn how systems interact naturally and through human impact. Students will be able to understand the history of our planet's change, and how it will continue to change as a result of natural impacts and man-made causes. Students will analyze real-world data in a variety of ways, including participation in Citizen Science projects that benefit the community.

Grade Levels: 11 and 12**Prerequisites: Completion of Biology & Chemistry****Fulfills: Science Credit****310 Environmental Earth: It's History & Future ACP****Level: ACP****Credits: 1.0**

This course explores the major systems of our planet, including climate, weather, geology, and the oceans. Students should have well-developed graphing skills and be confident with their math ability. We will learn how systems interact naturally and through human impact. Students will be able to understand the history of our planet's change, and how it will continue to change as a result of natural impacts and man-made causes. Students will analyze real-world data in a variety of ways, including participation in Citizen Science projects that benefit the community.

Grade Levels: 11 and 12**Prerequisites: Completion of Biology & Chemistry****Fulfills: Science Credit****336 Environmental Earth: It's History & Future CP****Level: CP****Credits: 1.0**

This course explores the major systems of our planet, including climate, weather, geology, and the oceans. We will learn how systems interact naturally and through human impact. Students should be able to put data into a graph. Students will be able to understand the history of our planet's change, and how it will continue to change as a result of natural impacts and man-made causes. Students will analyze real-world data in a variety of ways.

Grade Levels: 11 and 12**Prerequisites: Completion of Biology****Fulfills: Science Credit****333 Physics H****Level: Honors****Credits: 1.0**

This course is a full year course that explores introductory topics in physics using a problem solving approach. This is a mathematically rigorous program requiring excellent laboratory, graphing, and algebra skills. Topics focus on Newtonian mechanics, energy, and electricity. Labs will bring physics concepts to life.

Grade Levels: 11 and 12**Prerequisites: Completion or co-enrollment in Algebra 2 Honors****Fulfills: Science Credit****334 Physics ACP****Level: CP****Credits: 1.0**

This course is a full year course that explores introductory topics in physics using a problem solving approach. Students must have well-developed laboratory, graphing, and algebra skills. Topics focus on Newtonian mechanics and energy. Labs will bring physics concepts to life.

Grade Levels: 11 and 12**Prerequisites: 2 years of math and co-enrolled in ACP math or higher****Fulfills: Science Credit****335 Physics CP****Level: CP****Credits: 1.0**

This course is a full year course that explores introductory topics in physics using a hands-on and conceptual approach. Students should have successfully completed two years of high school math. Topics studied include mechanics, electricity, and waves. Labs will bring physics concepts to life.

Grade Levels: 11 and 12**Prerequisites: 2 years of math****Fulfills: Science Credit**

585 Engineering by Design H**Level: Honors****Credits: 1.0**

This course is a full year course that brings together science, technology, mathematics and the arts through an engineering lens. Students will use the Engineering Design Process to solve a series of challenges. The Engineering Design Process asks students to identify a need, research the problem, develop possible solutions, select a promising solution, build a prototype, test, evaluate and redesign as needed. Possible projects include constructing a bridge, building a musical instrument, and other projects that combine both science and art. Students will gain exposure to industry-standard software and technologies. Successful students work well with others, think creatively, and can learn independently.

Grade Levels: 12**Prerequisites: 3 years of math & science courses****Fulfills: Practical Art, Science, or Fine Art Credit****ADVANCED PLACEMENT COURSES**

The following courses are designed to offer an introductory college science experience and meet the requirements of the College Board. These courses are offered as the student's second high school exposure to the content, not as a preliminary course in the subject. In order to meet the recommended hours, students will be automatically scheduled into the appropriate AP lab period. This additional lab period meets two days per cycle for the full year. Thus, students meet all seven days of the school cycle over two periods, allowing them adequate time to complete the recommended labs and lecture material. Enrolled students are expected to take the AP test in the spring. We are very proud of the great success our students have had on the AP test and in their subsequent college classes.

380 AP Biology with lab period**Level: Advanced Placement****Credits: 1.5**

This is a second-year, intensive biology course, for students interested in majoring in biology or another science at university. Students will study biological chemistry, cells, molecular and organismal genetics, evolution, ecology, and a survey of life on Earth. Labs incorporate chemistry concepts into the study of biology, such as stoichiometry, titration and gas laws, and focus on accurate results and quantitative analysis. Laboratory techniques include transformation and culturing of bacteria, PCR, electrophoresis, Western blotting, and spectrophotometry. Dissections are included. The course will be automatically scheduled with the appropriate AP lab period. This course meets seven days per cycle.

Grade Levels: 11 and 12**Prerequisites: Completion of H/ACP Bio and Chem and concurrently enrolled in ACP/Math****Fulfills: Science Credit****381 AP Chem with lab period****Level: Advanced Placement****Honors math****Credits: 1.5**

AP Chem is a college level chemistry course for those who wish to take a second more intensive course in chemistry. Topics include atomic structure and periodicity, chemical bonding, stoichiometry, states of matter, kinetics, equilibrium, thermodynamics and electrochemistry. This program will be of particular interest for those interested in any science or engineering career. The course will be automatically scheduled with the appropriate AP lab period. This course meets seven days per cycle.

Grade Levels: 11 and 12**Prerequisites: Chemistry and concurrent****Fulfills: Science Credit****382 AP Environmental Science with lab period****Level: Advanced Placement****Credits: 1.5**

APES is a college level introductory course. This course requires students to take a rigorous scientific approach when examining models and practices associated with achieving sustainability in a dynamic world. Students will learn the role of societal, economic, and environmental factors in developing sustainable practices. Laboratory skills will focus on analysis of data to determine solutions to environmental problems. This course combines the realms of biology, earth science, chemistry and physics to help students come to understand the interrelationships between man and nature. The course will be automatically scheduled with the appropriate AP lab period. This course meets seven days per cycle.

Grade Levels: 11 and 12**Prerequisites: Completion of H/ACP Bio and Chem and concurrently enrolled in ACP/H Math****Fulfills: Science Credit**

383 AP Physics C
Level: Advanced Placement

Grade Levels: 11 and 12
Prerequisites: Completion of Physics and taking or already taken AP Calculus BC
Fulfills: Science Credit

Credits: 1

This is a calculus-based course that serves as a second year of Physics and preparation for the Mechanics Advanced Placement Physics test (Physics C-Mechanics). Calculus is introduced as another tool for problem solving. This program will be of particular interest for those interested in any physical science or engineering career. Prerequisite: One full year of high school physics. This course requires that AP Calculus BC is taken concurrently or is already completed.

ELECTIVE COURSES

The science elective courses are designed to supplement the fundamental science curriculum by building on core disciplinary knowledge from the full-year science course offerings. Science electives are **open to all grade 12 students**. Students must have passed at least two full year science courses before an elective can be taken.

306 Exercise Physiology
Level: ACP
Credits: .5 (Semester Course)

Grade Level: 11 & 12
Prerequisites: None
Fulfills: Science or Physical Education Credit

Exercise Physiology is a course that explores the human body's physiological response to exercise. During the course, students will learn how to correctly analyze exercise data through experimentation and lab write-ups. This course is physically and educationally demanding and requires students to take part in labs that test VO₂max, Lactate Threshold, Muscular Strength, Endurance, Power, Body Composition and Flexibility. A strong background in first year Biology is recommended.

308 Personal Training ACP
Level: ACP
Credits: .5

Grade Level: 11, 12
Prerequisites: None
Fulfills: Physical Education or Science Credit

This course gives students the foundational knowledge to become a personal trainer by exploring exercise through exercise science, kinesiology, and biomechanics. Students learn correct exercise form and how to teach technique to other individuals in a personal training environment. During this class students will gain the knowledge to become certified personal trainers. Upon completion of Personal Training students may sign up for a nationally recognized personal training certification exam. Note, the certification exam is not included in the course and is a separate cost and time requirement. Successful completion of one or more of these FHS PE courses is recommended; Strength & Conditioning, Personal Fitness and Exercise Physiology.

345 Animal Behavior
Level: ACP
Credits: .5

Grade Level: 11 & 12
Prerequisites: None
Fulfills: Science Credit

Students will investigate animal behavior and the interaction of animals with their environment. Animals in the wild and in the laboratory will be studied. Animal rights and animal activism will be studied through videos, images, internet resources and actual scientific research studies. This is a semester lab course

346 Oceanography
Level: ACP
Credits: .5

Grade Level: 11 & 12
Prerequisites: None
Fulfills: Science Credit

This is an activity-oriented program with focus on four major areas within the science of Oceanography: History of Ocean Study and Navigation, Conservation and Exploitation, Marine Biology, and Physical Oceanography. Students will become more familiar with the organisms and their ecological interaction within the shores of New England, as well as the relationship our local organisms have within the larger connected waters of the Earth's Oceans. Laboratory experiences will be both hand on and digital, along with numerous creative and research based assignments. Basic prerequisite skills include: Knowledge of Biology as well as Chemical Cycling, graphing, understanding and utilizing measurements, and ability to independently research.

354 Human Anatomy & Physiology**Level: ACP****Credits: 1**

Human Anatomy and Physiology is a full year lab course exploring all 11 systems of the human body. Anatomical structures (anatomy) and their corresponding function (physiology) are learned using a diagnostic patient case study based approach. Students will learn anatomy and physiology through both the patient and doctor perspectives. Labs involving patient data collection, data analysis, and dissection are completed throughout the year. Hands-on learning experiences, alternative assessments, disease research papers, visual slideshow assignments and team case studies are used to determine student understanding. A strong background in biology is recommended and students should have successfully completed chemistry.

Grade Level: 12**Prerequisites: Biology & Chemistry****Fulfills: Science Credit****356 Forensics Science****Level: ACP****Credits: .5**

Forensic science is the application and connection of science to the United States legal system. This course takes you from the crime scene to the courtroom, revealing the techniques that professionals use to identify and collect evidence, analyze it, and apply the results in an investigation. Forensics is a complex mixture of planning, problem solving, practical application, and communication. In this course you will apply your prior scientific background to legal investigations by performing labs and presenting your findings to the class. This is a lab and project based course that is best suited to an independent worker. Group work and presentations are a mandatory component of the course syllabus. As you sharpen your analytical skills, you will learn what is really behind Crime Scene Investigations. Prerequisites: Successful completion of both Biology and Chemistry. This is a lab based course

Grade Level: 11 & 12**Prerequisites: None****Fulfills: Science Credit****350 Vertebrate Zoology****Level: ACP****Credits: .5**

Primarily a laboratory dissection course, Vertebrate Zoology offers the student an opportunity to investigate the structure of a variety of organisms. Students will observe the sequential development, function and evolutionary relationships existing among vertebrate animals. Dissections will include the lamprey eel, shark, necturus, pigeon, snake, and pig. This is a lab based course

Grade Level: 11 & 12**Prerequisite: Biology & Chemistry****Fulfills: Science Credit****384 Food Chemistry****Level: ACP****Credits: .5**

Everybody eats! Food is an integral part of our lives and has an immense impact on our culture as human beings. Where did our food pyramid come from? What is sodium benzoate? How does diet impact health? What factors will affect the future of food in the world? Caramelization, preservation, fermentation, and leavening, are just some of the many reactions we use to prepare our food. Science of food is one of the original sciences studied by humans, and one that we continue to study today. Food science is multidisciplinary, incorporating aspects of biology, chemistry, engineering, design, and biochemistry. You will learn what happens when you make food. This is a lab based course

Grade Level: 11 & 12**Prerequisite: Biology & Chemistry****Fulfills: Science Credit**

Special Education

Jennifer DeFusco, Department Chair

Corinne Nye, Department Chair

Daniel Martin, Phoenix Coordinator

Natalya Mains, Learning Center Coordinator

The Special Education Department provides specially designed instruction to meet the unique needs of students with disabilities. Students eligible for Special Education services have Individualized Educational Programs that include both Special Education and Regular Education courses. The primary goal of the department is to support and encourage maximum student involvement in regular education courses to the extent appropriate.

The Special Education Department and the Framingham High School community are committed to meeting the educational and emotional needs of students with learning challenges in the least restrictive environment. Each Framingham High School student with special needs is placed in accordance with the TEAM evaluation process. This process involves exploring and documenting all regular education alternatives prior to referral to Special Education.

Participation in the following Special Education courses is predicated upon recommendations made via the TEAM process and the receipt of a signed Individualized Educational Program accepting the course(s).

Non Program Special Education Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Applied English I Applied Geometry Applied Int. Algebra I Applied Modern World History Applied Biology I Support/EF	Applied English II Applied Algebra I Applied Int. Geometry Applied US History I Applied Environmental Science Support/EF	Applied American Literature Applied Algebra II Applied US History II Applied General Science Support/EF	Applied World Literature Applied Consumer Math Applied Integrated Consumer Math Support/EF Application Navigation Career Planning Seminar

Course Descriptions

715 Applied Algebra I

Level: Unleveled

Credits: 1.0

This course is for special education students and is taught with the necessary modifications at the students instructional level. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on MCAS preparation as well as the fundamentals of Algebra/Geometry through the use of real world applications. Particular areas of study include the real number system, operations on polynomials, reasoning with equations, building and interpreting linear functions, line. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of the course.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

720 Applied Integrated Algebra I

Level: Unleveled

Credits: 1.0

This course is for special education students who have participated in a functional level math class or have previously taken the MCAS-Alt and is taught with the necessary modifications at the students instructional level.. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on MCAS preparation as well as the fundamentals of Algebra. Particular areas of study include the real number system, operations on polynomials, reasoning with equations, building and interpreting linear functions, line. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of the course.

767 Applied Geometry

Level: Unleveled

Credits: 1.0

This course is for special education students and is taught with the necessary modifications at the students instructional level. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on MCAS preparation as well as the fundamentals of Geometry through the use of real world applications. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of the course. The Applied Geometry course includes an introductory unit on solving multi-step equations. It covers topics in plane and spatial geometric figures including area, perimeter, volume, similarity, circles, triangles, quadrilaterals and regular polygons.

Grade Level: 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

889 Applied Integrated Geometry

Level: Unleveled

Credits: 1.0

Prerequisites: Special Education Team Decision and Passing Applied Integrated Algebra I

This course is for special education students who have participated in a functional level math class or have previously taken the MCAS-Alt and is taught with the necessary modifications. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on MCAS preparation as well as the fundamentals of Geometry. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of the course. The Applied Integrated Geometry course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included. Topics include area, perimeter, volume, similarity, circles, triangles, quadrilaterals and regular polygons.

Grade Level: 10, 11, 12

Fulfills: Math Credit

768 Applied Algebra II

Level: Unleveled

Credits: 1.0

This course is for special education students and is taught with the necessary modifications at the student's instructional level. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on the fundamentals of Algebra through the use of real world applications. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of the course. The Applied Algebra 2 course includes topics such as slope-intercept form equations, definition of a function and function analysis, quadratic functions, systems of equations, exponential functions, absolute value functions, radical functions, and solving equations by factoring and the quadratic formula.

Grade Level: 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

888 Applied Integrated Math Topics

Level: Unleveled

Credits: 1.0

Prerequisites: Special Education Team Decision and Passing Applied Integrated Algebra I and Applied Integrated Geometry

This course is for special education students who have participated in a functional level math class or have previously taken the MCAS-Alt and is taught with the necessary modifications. Step-by-step examples are provided through interactive note taking, to closely mirror all coursework problems. The curriculum is aligned with the Massachusetts Curriculum Frameworks and the high school's learning expectations. There will be a strong emphasis on the fundamentals of Algebra and Geometry through the use of real world applications. Problem solving, communication, connections, representations, and reasoning skills will be an integral part of

Grade Level: 11, 12

Fulfills: Math Credit

the course.

946 Applied Consumer Math

Level: Unleveled

Credits: 1.0

This course is for special education students and is taught with the necessary conditions. Additionally, this course is designed as a fourth-year mathematics course that will focus on real word math concepts, applying the Common Core Standards for Mathematical Practice. Mathematical concepts will be presented in a variety of everyday real-world applications where students will practice application of concepts to ordinary circumstances. Mathematical concepts will include, but are not limited to, percentages, area, perimeter, logic, probability. Applications include money, budgeting, cash flow, borrowing, interest rates, domestic applications, construction and landscape planning.

Grade Level: 11/12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

870 Applied Integrated Consumer Math

Level: Unleveled

Credits: 1.0

This course is for special education students who have participated in a functional level math class or have previously taken the MCAS-Alt and is taught with the necessary modifications. Additionally, this course is designed as a fourth-year mathematics course that will focus on real word math concepts, applying the Common Core Standards for Mathematical Practice. Mathematical concepts will be presented in a variety of everyday real-world applications where students will practice application of concepts to ordinary circumstances. Mathematical concepts will include, but are not limited to, percentages, area, perimeter, logic, probability. Applications include money, budgeting, cash flow, borrowing, interest rates, domestic applications, construction and landscape planning.

Grade Level: 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

701 Applied English I

Level: Unleveled

Credits: 1.0

This course is designed for students with significant weaknesses in reading fluency, reading comprehension, spelling, vocabulary, and written expression. Individualized instruction involves a multi-sensory approach, slower pace, and consistent review of information. Strategies are designed to enable students to improve communication skills. This course is designed for students who are assigned to a special education class through the Special Education Team process.

Grade Level: 9

Prerequisites: Special Education Team Decision

Fulfills: English Credit

726 Applied English II

Level: Unleveled

Credits: 1.0

This course is designed for students with significant weaknesses in reading fluency, reading comprehension, spelling, vocabulary, and written expression. Individualized instruction involves a multi-sensory approach, slower pace, and consistent review of information. Strategies are designed to enable students to improve communication skills. This course is designed for students who are assigned to a special education class through the Special Education Team process.

Grade Level: 10

Prerequisites: Special Education Team Decision

Fulfills: English Credit

900 Applied American Literature

Level: Unleveled

Credits: 1.0

This course is designed for students with significant weaknesses in reading fluency, reading comprehension, spelling, vocabulary, and written expression. Individualized instruction involves a multi-sensory approach, slower pace, and consistent review of information. Strategies are designed to enable students to improve communication skills. This course is designed for students who are assigned to a special education class through the Special Education Team process.

Grade Level: 11

Prerequisites: Special Education Team Decision

Fulfills: English Credit

903 Applied World Literature

Level: Unleveled

Grade Level: 12

Prerequisites: Special Education Team Decision

Credits: 1.0

This course is designed for students with significant weaknesses in reading fluency, reading comprehension, spelling, vocabulary, and written expression. Individualized instruction involves a multi-sensory approach, slower pace, and consistent review of information. Strategies are designed to enable students to improve communication skills. This course is designed for students who are assigned to a special education class through the Special Education Team process.

Fulfills: English Credit**717 Applied Modern World History****Level: Unleveled****Credits: 1.0**

Through a thematic approach, this course will use the history of significant world events from around the 18th century through today to build important learning skills such as critical thinking, writing, communication skills, and historical reasoning. The course revisits revolutions throughout the world, focuses on interactions between countries in the 20th century, and then looks at current events. Students will examine why revolutions occur and also how the desire for human rights drives change. They will also look at leadership and power through a global study approach. Students will be asked to share their viewpoints through class discussion, written assignments, and projects. This course mirrors the curriculum of the Modern World course and will offer a variety of instructional techniques to accommodate different learning styles in order to increase understanding of the course material.

Grade Level: 9**Prerequisites: Special Education Team Decision****Fulfills: History Credit****705 Applied United States History I****Level: Unleveled****Credits: 1.0**

Through a thematic approach, this survey course covers the major political, social, economic, and cultural factors that directly affect and influence the United States to this day. Topics covered include major events from the early migration of Native Americans to the late 19th century. In addition to improving their understanding of historical content, students will have the opportunity to develop their critical thinking skills, public speaking ability, and ability to make connections to current events. Students will also have the opportunity to examine historical events through the lens of diverse perspectives and experiences. This course mirrors the curriculum of the US History I CP course and is modified to meet the needs of students with special needs.

Grade Level: 10**Prerequisites: Special Education Team Decision****Fulfills: History Credit****734 Applied United States History II****Level: Unleveled****Credits: 1.0**

Through a thematic approach this course will examine major trends and themes in the political, sociocultural, and economic history of the United States from around 1870 to the present. By tracing the roots of the Civil Rights movements of today, the United States' involvement in world affairs, and changes to United States society students will be empowered to be critical thinkers, equity advocates, and engaged citizens as they analyze US History through different lenses. Through this process students will examine diverse experiences and perspectives, and reflect on the ways in which power is used, maintained, and challenged in modern US history. Particular emphasis will be placed on building learning skills such as writing, historical reasoning, communication skills, and critical thinking. This class will offer a variety of instructional techniques to accommodate different learning styles in order to increase understanding of the course material. This course includes student engagement in a Civics project

Grade Level: 11**Prerequisites: Special Education Team Decision****Fulfills: History Credit****728 Applied Biology****Level: Unleveled****Credits: 1.0**

This course is assigned to special education students with the necessary skills-based modifications. The course emphasizes the unifying themes of biology. The unit topics include characteristics of living things, structure and function of cells, evolution, genetics/heredity, human anatomy and physiology, and ecology. There is a strong emphasis on MCAS preparation.

Grade Level: 9**Prerequisites: Special Education Team Decision****Fulfills: Science Credit****728A Applied Environmental Science****Level: Unleveled****Credits: 1.0**

This course is designed for special education students and includes necessary skills-based modifications. The curriculum review basic biology and investigates elements of the life sciences such as ecosystems, population

Grade Level: 10**Prerequisites: Special Education Team Decision****Fulfills: Science Credit**

dynamics, biodiversity, sustainability, human effects on ecosystems, and conservation. Students make real life connections to the world around them and how they can positively impact the environment.

868 Applied General Science

Level: Unleveled

Credits: 1.0

This course is assigned to special education students and includes the necessary skills-based modifications. The curriculum includes elements of physics, chemistry, earth science and technology/ engineering. This is a lab/project-based course.

Grade Level: 11

Prerequisites: Special Education Team Decision

Fulfills: Science Credit

707/2xS1.FHS, 707/2xS2.FHS, 707/4xS1.FHS, 707/4xS2.FHS Support

Level: Unleveled, Pass/Fail

Credits: 0.25 for 2x/cycle, 0.5 credit for 4x/cycle

This semester course is offered to special education students that require academic support per their IEP. Each student will work on the academic goals outlined in their IEP and the curriculum will be individualized to meet each student's needs. Students will have the opportunity to work on missed assignments and assessments, access the writing center, and receive support in areas of need. Teachers and students will conference about current progress in their classes, areas for improvement, and strategies for successful progress. All students will be required to use a student planning system via academic planners or online application. Students may take this course multiple years, both semesters, either 2 or 4 times per cycle.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills:

708/2xS1.FHS, 708/2xS2.FHS, 708/4xS1.FHS, 708/4xS2.FHS Executive Functioning

Level: Unleveled, Pass/Fail

Credits: 0.25 for 2x/cycle, 0.5 credit for 4x/cycle

This semester course is offered to special education students that require executive functioning skills per their IEP. Each student will work on the academic goals outlined in their IEP and the curriculum will be individualized to meet each student's needs. The course is designed to help students develop Executive Function (EF) strategies – goal setting, cognitive flexibility, organizing and prioritizing, memorizing, self-checking and monitoring – can be the difference between success and failure, particularly in the current environment.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills:

904 Application Navigation

Level: Unleveled

Credits: 0.5 credit for 2x/cycle /Full year

A special education transition course for first semester seniors who are applying to a post-graduation program that requires an application for admittance. Students will research schools and programs, write required essays, review the application process, learn about financial resources, and learn how to navigate student support services after high school.

Grade Level: 12

Prerequisites: Special Education Team Decision

Fulfills:

733 Career Planning Seminar

Level: Unleveled

Decision

Credits: 0.5 2x/cycle /Full year

Career Planning is a special education course that provides students with the opportunity to explore their strengths and weaknesses while implementing a career/post-secondary curriculum. This leads students to make wise and satisfying occupational and career choices as well as optimizes career readiness.

Grade Level: 12

Prerequisites: Special Education Team

Fulfills:

The Phoenix Program

Grade 9	Grade 10	Grade 11	Grade 12
Phoenix English 9 Phoenix Algebra I Phoenix World History Phoenix Biology I Phoenix Freshman Seminar Phoenix Health Phoenix Human Diseases History of Graffiti	Phoenix English 10 Phoenix Geometry Phoenix US History Survey Phoenix Biology II Phoenix Human Diseases	Phoenix English 11-12 Phoenix Algebra II Phoenix US History Survey Phoenix Human Diseases Phoenix Food Science Phoenix Forensics	Phoenix English 11-12 Phoenix Film Study Phoenix Human Diseases Phoenix Food Science History of Graffiti Phoenix Forensics Phoenix Career Development

724 Phoenix Algebra I

Level: Unleveled

Credits: 1.0

This course provides specialized instruction for students with varied basic math skills. The course includes the study of the real number system, reasoning with equations and inequalities, building and interpreting functions, and linear relationships.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

718 Phoenix Geometry

Level: Unleveled

Credits: 1.0

This course includes the study of plane and spatial geometric figures. Algebraic applications and coordinate methods are included along with inductive and deductive reasoning. Topics include area, similarity, circles, regular polygons, geometric solids, as well as an introduction to trigonometry.

Grade Level: 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

700 Phoenix Algebra II

Level: Unleveled

Credits: 1.0

This course provides specialized instruction with varied math skills focusing on function analysis. This course provides a more in depth study of linear functions, inequalities, quadratic functions, polynomials and exponential functions.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

711 Phoenix Modern World History

Level: Unleveled

Credits: 1.0

This course is designed to allow students to analyze and interpret significant historical events and periods in world history. It will focus on certain areas including European, and American History. Students will be challenged to utilize their writing, interpreting, and analytical skills to foster complete understanding of the significance of historical events

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: History Credit

704 Phoenix US History Survey

Grade Level: 10, 11, 12

Level: Unleveled

Credits: 1.0

This course covers the time period from Colonization to present-day. Changes in social, political, and economic issues and policies are highlighted as the United States moves from an agrarian society to an industrial society and a world leader into the 20th century. In-depth treatment of pivotal events will include, but are not limited to, Colonization, The Civil War, Reconstruction, Industrialization, Immigration, the New Deal, Cold War, Civil Rights Movement, Détente, and the Gulf War.

Prerequisites: Special Education Team Decision

Fulfills: History Credit

727 Phoenix Biology I

Level: Unleveled

Credits: 1.0

This course covers the major concepts of biology including chemical bonds, pH, organic molecules, enzymes, cell structure and function, cellular processes, DNA, cell division and protein synthesis. The course is designed so that it will be followed by Phoenix Biology II.

Grade Level: 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Science Credit

706 Phoenix Biology II

Level: Unleveled

Credits: 1.0

This course reviews the content of Phoenix Biology I – biochemistry, cell structure and function, DNA, and cell division. In addition, the course covers the concepts of genetics, evolution, ecology and human systems. The course is designed to review previous Biology material in addition to new material in order to prepare students for the Biology MCAS.

Grade Level: 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Science Credit

709 Phoenix English 9

Level: Unleveled

Credits: 1.0

This course provides specialized instruction in reading for comprehension and vocabulary development, as well as developing reading skills in a variety of literary genres. Writing assignments will focus on the development of clear, concise sentences, paragraphs, and essays. This course utilizes multimedia resources to supplement diverse

Grade Level: 9

Prerequisites: Special Education Team Decision

Fulfills: English Credit

710 Phoenix English 10

Level: Unleveled

Credits: 1.0

This course provides specialized instruction in reading for comprehension and vocabulary development, as well as developing reading skills in a variety of literary genres. Writing assignments will focus on the development of clear, concise sentences, paragraphs, and essays. This course utilizes multimedia resources to supplement diverse learning styles.

Grade Level: 10

Prerequisites: Special Education Team Decision

Fulfills: English Credit

906 Phoenix English 11

Level: Unleveled

Credits: 1.0

This course is for upperclassmen who have already taken Phoenix English 9 and Phoenix English 10. This course encourages students to consider different genres of American and World literature and its relationship to society and themselves. Students will analyze and interpret literature through discussion as well as expository writing.

Grade Level: 11

Prerequisites: Special Education Team Decision

Fulfills: English Credit

742 Phoenix Film Study

Level: Unleveled

Credits: 1.0

This course involves the study of classic and award-winning films. Students critique both the artistic and technical merits of the films, and analyze how literary elements are present and used to tell the film's story. They will study the development of theme, plot, characterization, and setting in each production. The course will also require students to write analyses that voice their own opinions regarding the use of literary and film devices, and their effectiveness within the film.

Grade Level: 12

Prerequisites: Special Education Team Decision

Fulfills: English Credit

949 Phoenix Seminar**Level: Unleveled****Credits: 0.5**

Phoenix Seminar is a life skills course that teaches students to use a set of basic coping skills that will enable them to: become more aware of thoughts and feelings; evaluate negative thoughts and feelings; decide between taking action and practicing deflection; deflect unwanted feelings; practice assertion; solve problems; speak effectively; listen well; empathize; and increase the ratio of positive to negative thoughts and interactions. After learning and honing these basic communication skills, the curriculum continues by teaching the students how to set and achieve goals, search and apply for jobs, build a resume, develop on-the-job skills, budgeting time and money effectively, and searching for independent housing. Students foster these skills in a variety of methods to help them become active participants within their community. The curriculum is designed to meet each student's individual needs and transition goals.

Grade Level: 10, 11, 12**Prerequisites: Special Education Team Decision****Fulfills: Elective Credit****910 Phoenix Freshman Seminar****Level: Unleveled****Credits: 0.5**

This full year course is offered to all grade nine students in the Phoenix Program. Students will be introduced to the supports in the program, explore interests, develop communication and coping skills, review their IEP focusing on individual needs. Students will also work on the development and/or improvement of various study skills and learning strategies.

Grade Level: 9**Prerequisites: Special Education Team Decision****Fulfills: Elective Credit****911 Phoenix Health****Level: Unleveled****Credits: 0.5**

This health course for the Phoenix Program will provide students with the knowledge and skills to make informed responsible decisions and assist them in leading healthy lifestyles. Instruction will consist of wellness, communication skill, nutrition, non-infectious and infectious diseases to include sexually transmitted infections and HIV/AIDS, and social and emotional health to include relationships, sex and family life education, violence prevention, sexual harassment and substance free lifestyles. The Phoenix Health course parallels the mainstream health curriculum with adaptations relative to the needs of the Phoenix program.

Grade Level: 10**Prerequisites: Special Education Team Decision****Fulfills: Health Credit****721 Phoenix Human Diseases****Level: Unleveled****Credits: 0.5**

This half year course will be offered to all Phoenix students. The course will explore a variety of human diseases and the immune system. Students will briefly review genetics, although background knowledge in genetics will not be required. This course will also cover the role of certain diseases in history.

Grade Level: 10, 11, 12**Prerequisites: Special Education Team Decision****Fulfills: Science Credit****723a Phoenix Food Science****Level: Unleveled****Credits: 0.5**

This half year course is intended to introduce students to the chemical nature of foods and the chemical and physical transformations that occur during the preparation and cooking of those foods. Some topics for this course are the senses of taste and smell, phase changes during cooking, gluten, temperature and organic compounds.

Grade Level: 11, 12**Prerequisites: Special Education Team Decision****Fulfills: Practical Arts Credit****723 Phoenix Forensics****Level: Unleveled****Credits: 0.5**

This class will analyze a criminal case and its investigation from beginning to end from the points of view of the defense team, prosecution, forensic specialists, victims, the accused and their families, while also learning about the United States Judicial System and how it operates.

Grade Level: 11, 12**Prerequisites: Special Education Team Decision****Fulfills: History Credit****908p Phoenix Career Development Program****Level: Unleveled****Credits: 1.5**

The Phoenix Career Development Program provides an opportunity for Phoenix students to continue their education

Grade Level: 11, 12**Prerequisites: Special Education Team Decision****Fulfills: History Credit**

and at the same time gain valuable work experience under school supervision. Phoenix students participating in the program carry four (4) academic subjects and are employed in the community during the remainder of the school day. A student can earn up to three (3) credits per year for successful participation in the program. Selection of Phoenix Career Development students is based upon the approval of parent, grade administrator, school counselors, Phoenix Director, and the Career Development Coordinator. A student must be sixteen (16) years of age in order to enter the program. Phoenix students in this program must fulfill the same graduation requirements as all other students and they're expected to maintain an acceptable academic average in order to remain in the program. Phoenix Program staff will meet with the student's employer at the end of each term to evaluate progress. Phoenix students will not receive credit if they do not fulfill their academic requirements or if they do not perform satisfactorily on the job. Poor school attendance or chronic tardiness will cause a student to lose Phoenix Career Development credit.

743 Phoenix Physical Education
Level: Unleveled
Credits: 0.5

Grade Level: 9, 10, 11, 12
Prerequisites: Special Education Team Decision
Fulfills: Physical Education Credit

This half year course is designed to give students the opportunity to learn a variety of sports and sports related movements. students will focus on the fundamental components and principles of fitness needed to perform an assortment of physical activities

714 Phoenix Environmental Civics
Level: Unleveled
Credits: 0.5

Grade Level: 11, 12
Prerequisites: Special Education Team Decision
Fulfills: History Credit

This full year course explores the interaction between human populations and the environment and how we as a society can use activism, legislation and international cooperation to foster healthier and more productive environments. Students will connect environmental concepts with different employment opportunities, explore the history of legislation that helped shape our current environments, and look at how policy can affect different industries and economic growth

950 Phoenix Self-Discovery
Level: Unleveled
Credits: 0.5

Grade Level: 9, 10, 11, 12
Prerequisites: Special Education Team Decision
Fulfills: History Credit

During Phoenix counseling sessions, students will be given the opportunity to discuss issues related to their social, emotional and personal health. Students will be scheduled to meet once per cycle. The clinicians will provide therapeutic support by means of individual processing, CBT, direction for building coping strategies, substance use education, education on healthy relationships, effective communication, and critical thinking. Students will be supported in developing problem solving and conflict resolution strategies to help foster healthy peer and adult relationships in and out of school. As needed, mediation with staff and peers can occur to support the skills learned in sessions. The sessions will provide .5 credits a semester for students who effectively use the meeting time.

742a Phoenix Science in Film
Level: Unleveled
Credits: 0.5

Grade Level: 10, 11, 12
Prerequisites: Special Education Team Decision
Fulfills: History Credit

This half year course involves the study of classic science fiction movies and television shows. Students will analyze the scientific plausibility of the scenarios presented in the film/show. They will learn about the real life applications and determine the realistic versus exaggeration.

719 Phoenix Expressive Arts
Level: Unleveled
Credits: 0.5

Grade Level: 10, 11, 12
Prerequisites: Special Education Team Decision
Fulfills: History Credit

In this full year course, students will explore and travel the world, learning about various cultures around the globe and the activities that are practiced for celebration, rites of passage, expression and community engagement. (Only available to students in the Phoenix program, TEAM recommendation required).

713b Exploring Mindfulness
Level: Unleveled
Credits: 0.5

Grade Level: 10, 11, 12
Prerequisites: Special Education Team Decision
Fulfills: History Credit

In this full year course, students will be exploring the history and benefits of a mindfulness practice. Examples

practices from all over the world will be introduced where art, music and physical activity are used to reduce stress.(Only available to students in the Phoenix program, TEAM recommendation required

The Learning Center Program

Course Descriptions

762 Learning Center Math

Level: Unleveled

Credits: 1.0

This course focuses on teaching the following topics: money management, banking and ATM skills. Students also work on time management skills, grocery store and restaurant math such as shopping budgets, estimations, and discounts. Other topics addressed include pricing of items, telling time, basic measurement skills, and cookbook math.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Math Credit

763 Learning Center Social Studies

Level: Unleveled

Credits: 1.0

The course focuses on teaching social studies concepts, centering on map reading and basic geography. Students also work on their reading comprehension and writing skills through current events articles, basic economic concepts, along with practical application of citizenship and map reading skills by interpreting weather and road maps.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: History Credit

764 Learning Center Transition

Level: Unleveled

Credits: 1.0

This course focuses on improving awareness of oneself, understanding healthy relationships, citizenship in the school and community, and employment opportunities. The curriculum will be based on three focus areas: Self Determination, Citizenship, and Career Exploration.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

912 Learning Center Science

Level: Unleveled

Credits: 1.0

This course focuses on teaching basic topics in Science that involve real life applications. Topics such as cell structure and function, key biological processes, genetics, human biology, evolution, ecology and earth systems will be covered. The course content and detail are modified to meet the students individualized needs.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: Science Credit

944 Learning Center English

Level: Unleveled

Credits: 1.0

This full year course provides specialized instruction in writing and reading for comprehension and vocabulary development, as well as developing reading skills in a variety of literary genres. Writing assignments will focus on the development of clear, concise sentences, paragraphs, and essays, along with identifying and communicating personal information.

Grade Level: 9, 10, 11, 12

Prerequisites: Special Education Team Decision

Fulfills: English Credit

Technology Education / Engineering Department

Peter Erbland, Department Chair

Career and Technical Pathways:

Design and Visual Communications:

Photography Specialty

Digital Photography 1
Digital Photography 2
Digital Photography 3
Photography 1 (Fine Arts)
Photography 2 (Fine Arts)

Computer-Based Design Specialty

Digital Graphics 1
Digital Graphics 2
Digital Graphics 3

Drafting

Architectural Design 1
Architectural Design 2 Engineering
Drawing & Design 1 Engineering
Drawing & Design 2

Engineering Technology:

Electronics Specialty Robotics
AP Computer Science Principles

Programming and Web Development

Computer
Gaming 1 Web
Design/HTML
AP Computer Science Principles (Math)
Programming in C++ (Math)
AP Computer Science (Math)

Radio and TV Broadcasting

Video Production 1
Video Production 2
Video Production 3
Video Production 4
Video Production Internship

Business

Innovation Incubator
Business Management
Marketing Principles
Accounting
Finance

Construction

Construction Technology

The Technology Education/Engineering Department at Framingham High School is a comprehensive program involving the study of media and communications, computer systems, and engineering technology. There are numerous courses offered in the program that are primarily activity-based and provide an emphasis on the engineering design process. The practical use of current, industry standard software, computers and peripherals, tools and materials engage students in order to help them better understand the technical world. Students are encouraged and challenged to apply critical and creative problem solving skills in developing solutions.

Technology/Engineering program also provides options to meet the “practical arts” expectation for Framingham graduation

Secondary-Post-Secondary Linkage

Some of the courses in the Technology/Engineering program have an articulation agreement with a post-secondary institution where the course has been aligned with the college’s expectations. Participants who meet specific criteria can receive college credit when attending the articulated program at the college specified.

TECHNOLOGY EDUCATION/ENGINEERING

Course Descriptions

The following courses are listed by cluster or pathways. This determination represents the career plan policy suggested by Career and Technical Education. Unless otherwise specified, all courses meet the Practical Arts requirement.

Design and Visual Communications

544 Digital Graphics 1

Level: ACP

Credits: .5

This course introduces the student to the world of digital graphics and the computer applications used by graphic professionals. In a fun, hands-on environment, the course will primarily focus on the basic use of industry standard tools such as Adobe InDesign, Adobe Photoshop, and Adobe Illustrator. During this exciting process of learning, students will be exposed to career options in desktop publishing, image editing, illustration, and new graphics related jobs such as user design/user interface. No drawing experience necessary

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical or Fine Art Credit

558 Digital Graphics 2

Level: ACP

Credits: .5

This course builds on Digital Graphics 1 and explores several specific careers in computer graphics. Students will explore the careers of comic book artists, book cover artists, graphic designers and freelance illustrators. Students will utilize different output mediums such as paper, glass and t-shirts to display their work.

Grade Level: 10, 11, 12

Prerequisites: Digital Graphics 1

Fulfills: Practical or Fine Art Credit

566 Digital Graphics 3

Level: ACP

Credits: .5

This course continues to build on Digital Graphics 1 & 2 using Adobe Animate to create animation shorts for display. Students will expand their knowledge of animation by dissecting award winning animation while using tools and techniques to produce unique short stories to be viewed by the public.

Grade Level: 9, 10, 11, 12

Prerequisites: Digital Graphics 2,

Fulfills: Practical Art Credit

539 Digital Photography 1

Level: ACP

Credits: .5

This course explores the use of technology in the "digital darkroom." Students will learn how digital cameras, scanners and printers operate and are used to process digital images. Adobe Photoshop will be used to edit, manipulate, and create images. Concepts will include computer systems and technology, pixel resolution, file formats, saving and storing images, composition, and tool skills to produce creative digital images. The Internet will be used as a resource.

Grade Level: 9, 10, 11, 12

Prerequisites: Digital Graphics 2,

Fulfills: Practical or Fine Art Credit

577 Digital Photography 2

Level: ACP

Credits: .5

This course continues the use of Adobe Photoshop, but the majority of the course is learning to use Digital Single Lens Reflex (DSLR) cameras. Students will experiment with different techniques, including Painting with light, Water balloon popping, Fisheye, Macro, Water drop, HDR, Laser cut and 3D Cell Phone Box.

Grade Level: 9, 10, 11, 12

Prerequisites: Digital Photography 1

Fulfills: Practical or Fine Art Credit

578 Digital Photography 3

Level: ACP

Credits: .5

This course continues to develop advanced procedures available in Adobe Photoshop. Subjects include Advanced Compositing, Post Processing Techniques for landscape photography, using plug-ins, working with models, creating Smart Objects, and Adobe Lightroom.

Grade Level: 9, 10, 11, 12

Prerequisites: Digital Photography 2

Fulfills: Practical Credit

Drafting

551 Architectural Design 1

Level: ACP

Credits: .5

This course is designed to give the student a basic knowledge of architectural structures using Autodesk Revit. It includes the criteria for site selection, elevations, details, specifications, methods of construction, and pictorial representations. Students should be familiar with basic drafting tools. The course will focus on residential structures, culminating in the design of a “dream” house.

Grade Level: 10, 11, 12

Prerequisites: None

Fulfills: Practical or Fine Art Credit

552 Architectural Design 2

Level: ACP

Credits: .5

This course investigates all levels of architectural design including urban planning, landscape design, structural design, and architectural methodology. Students will become familiar with public and private code requirements, construction methods and advanced rendering techniques. Historical architectural solutions will also be studied.

Grade Level: 10, 11, 12

Prerequisites: Architectural Design 1

Fulfills: Practical or Fine Art Credit

560 Engineering Drawing and Design 1

Level: ACP

Credits: .5

Engineering Drawing is one of the best choices to communicate and present designs in the engineering design process. It is the universal language of technology. Students will learn 2-dimensional and 3-dimensional visualization skills that will assist them with the study of geometry and the planning process in technology education. Basic drafting techniques are taught along with an introduction to Computer-Aided Design (CAD) using computer software.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical Art Credit

561 Engineering Drawing and Design 2

Level: ACP

Credits: .5

This computer-based drawing course investigates and utilizes the sophisticated tools found in Computer-Aided Design (CAD). More complex assignments will be emphasized with accepted design standards. Three-dimensional modeling and computer animation will be added for presentations.

Grade Level: 9, 10, 11, 12

Prerequisites: Engineering Drawing & Design 1

Fulfills: Practical Art Credit

Programming and Web Development

568 Computer Gaming 1

Level: ACP

Credits: .5

In this course students learn how to design and create video games. This course introduces students to the key concepts of game development using Game Maker software. Learn to create various genres (i.e. platform, maze, arcade, strategy) single player games using Game Maker. You will also learn programming debugging practices.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical Art Credit

531 Web Design/HTML

Level: ACP

Credits: .5

Make your own web sites! Students will learn how to create web pages, evaluate the authenticity of on-line information and develop computational problem solving skills. Students will explore the role of the World Wide Web in today's society. Students will gain a broad understanding of the HTML, CSS and JavaScript computer languages.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical Art Credit

522 AP Computer Science Principles

Level: Advanced Placement

Credits: 1.0

This course introduces you to the essential ideas of computer science and helps you understand how computing and technology can influence the world around you. As part of this course, you will be exposed to a broad range of computing tools and skills while creatively addressing real-world issues and concerns. You will conceive and implement digital projects, utilizing some of the same processes that writers, programmers, engineers, designers, and other creators use to bring their ideas to life. This course also includes problem-solving, working with data, and

Grade Level: 10, 11, 12

Prerequisites: Year Long Math Class

Fulfills: Practical Arts or Math Credit

understanding the structure of the Internet and how it works.

Engineering Technology

556 Robotics 1

Level: ACP

Credits: .5

This course is an introduction to robotics with a focus on building, programming and problem solving strategies. You will build and program a robot using the VEX robotics system to meet different challenges. You will work hands-on in teams to build, program and document your progress. There will also be a focus on the usage of robotics in automation and manufacturing.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical Art Credit

Construction

598 Construction Technology – Carpentry Part I

Level: ACP

Credits: .5

This course is designed for students interested in employment in the building trades. Topics include workplace safety, layout, cutting, joining and shaping as you build different projects. Graduates of the program will have the skills to perform the duties of an entry-level carpenter's helper and will have the opportunity to obtain internships with local builders

Grade Level: 11, 12

Prerequisites: None

Fulfills: Practical Art Credit

599 Construction Technology – Carpentry Part II

Level: ACP

Credits: .5

This course is designed for students interested in employment in the building trades. Topics include workplace safety, layout, cutting, joining and shaping as you build different projects. Graduates of the program will have the skills to perform the duties of an entry-level carpenter's helper and will have the opportunity to obtain internships with local builders

Grade Level: 11, 12

Prerequisites: Construction Tech – Carpentry Part I

Fulfills: Practical Art Credit

Video Broadcasting

549 Video Production 1

Level: ACP

Credits: .5

This course trains students to utilize cameras and equipment to develop productions for broadcast on the Framingham Education Channel and its website. Lessons include projects and productions ranging from In-Camera / Autobiographical Videos, to In-studio commercials and Point of View videos. Students are introduced to video editing on Adobe Premiere, the business of television, and institutional basics. Each student must produce 5 sporting or other extracurricular events for broadcast per semester.

Grade Level: 9, 10, 11, 12

Prerequisites: None

Fulfills: Practical or Fine Art Credit

550 Video Production 2

Level: ACP

Credits: .5

Television Production 2 continues with emphasis on equipment and technique, while stressing character development, wiring and lighting for television and video, music video making, promotional video and more. Students are expected to produce for broadcast on Flyer News/FEC on a weekly basis. Each student must produce six sporting or other events for broadcast per semester.

Grade Level: 9, 10, 11, 12

Prerequisites: Video Production 1

Fulfills: Practical or Fine Art Credit

559 Video Production 3

Level: ACP

Credits: .5

Television Production 3 focuses on more creative projects including shorts, professional level promotional video, news writing and production, and feature news story productions. Student work will constitute the majority share of the productions for Flyer News.

Grade Level: 9, 10, 11, 12

Prerequisites: Video Production 2

Fulfills: Practical or Fine Art Credit

579 Video Production 4**Level: ACP****Credits: .5**

Television Production 4 takes a deeper look into the demands and opportunities relating to the world of advertising and marketing, as well as media and news ethics. A major focus is on media advocacy and journalistic integrity. Self-directed students will develop productions that are expected to be award winning and memorable.

Grade Level: 11, 12**Prerequisites: Video Production 3 and Teacher Rec****Fulfills: Practical Art Credit****966 Video Production Internship****Level: ACP****Credits: .5**

The Video Production Internship program gives students real-life industry experience as they create content for the district, including the Framingham Education Chanel and FHS. Students will develop a video portfolio that they can publish on their own website. This internship will focus on working with clients to develop video content that meets their specifications.

Grade Level: 11, 12**Prerequisites: Video Production 3 and Teacher Rec****Fulfills: Practical Art Credit****Business Options****581 Business Management ACP****Level: ACP****Credits: .5**

This course provides an understanding of the characteristics, the organization, and the operation of all types of businesses. This course covers concepts necessary to manage a small business or to operate a large corporation. It exposes students to the activities, decisions, problems, and successes involved in business, from entrepreneurship to the global economy. Topics include business operations and structures, social responsibility and business ethics, international business, governmental impact, small businesses, human resources, technology in business, financial institutions, credit regulations, investment strategies, and risk management. It opens a career pathway to management, entrepreneurship, accounting and finance.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Practical Art Credit****500 Accounting I ACP****Level: ACP****Credits: .5**

Accounting I uses an integrated approach to each accounting. Students will first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. Topics include an introduction to accounting, accounting information systems, time value of money, accounting for merchandising firms, sales and receivables, fixed assets, debt and equity.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Practical Art Credit****508 Marketing Principles ACP****Level: ACP****Credits: .5**

This course focuses on all aspects of marketing, from its foundations through its functions. Exploration of marketing and career opportunities within the field is achieved through careful examination of product and service planning, distribution, financing, risk management, selling, promotion, pricing, purchasing, and market information management. This class offers opportunities for group and individual enrichment activities as well as the chance for students to identify their roles in the area of marketing by examining local, national, and international use of marketing strategies.

Grade Level: 10, 11, 12**Prerequisites: None****Fulfills: Practical Art Credit****501 Introduction to Finance ACP****Level: ACP****Credits: .5**

In this introductory course, students will learn the basic principles of Finance—learning about capital, financial statements, the time value of money, stocks and bonds, and dividends in today's business environment. Other topics covered in this course include: taxes, cash flow, risk and return, options and corporate finance, and mergers and acquisitions.

Grade Level: 11, 12**Prerequisites: None****Fulfills: Practical Art Credit**

506 Innovation Incubator Lab ACP**Level: ACP****Credits: 0.5**

This is a hands-on business course for students interested in business applications. This course will allow students to develop their own small business understanding and applying business principles to their ideas. Course content will allow students to develop their own business plans by examining specific business models, understanding target markets, assessing risk as well as financial considerations. Students will also develop a marketing plan and website presence as part of their course work. Course topics will also include: planning, pricing, entrepreneurship, ownership, management, money handling, risk, inventory, and purchasing.

Grade Level: 10, 11, 12**Prerequisites: Business Management or SSA Approval****Fulfills: Practical Art Credit****Science Options****585 Engineering By Design****Level: Honors****Credits: 1.0**

This course is a full year course that brings together science, technology, mathematics and the arts through an engineering lens. Students will use the Engineering Design Process to solve a series of challenges. The Engineering Design Process asks students to identify a need, research the problem, develop possible solutions, select a promising solution, build a prototype, test, evaluate and redesign as needed. Possible projects include constructing a bridge, building a musical instrument, and other projects that combine both science and art. Students will gain exposure to industry-standard software and technologies. students must have successfully completed Algebra 2 and Chemistry (75% or higher).

Grade Level: 11, 12**Prerequisites: Algebra 2 and Chemistry****Fulfills: Practical Art, Fine Art, or Science Credit**

World Languages Department

Cheryl Jones, Department Chair

The ability to function in more than one language in today's interdependent world is a critical skill for students to acquire. Language study enables students to communicate successfully with members of other cultures and to gain valuable insight into cultural similarities and differences.

Students who study a language will:

- Strengthen their critical and analytical thinking skills
- Develop effective learning strategies with lifelong benefits
- Expand their base of knowledge to include ideas, perspectives and solutions that exist in other cultures
- Realize the interdependence of people throughout the world
- Gain direct access to knowledge and information generated by other countries and cultures
- Facilitate their participation in political and personal dealings.

WORLD LANGUAGES DEPARTMENT Sequence of Courses

For those students who had three years of Spanish, French or Mandarin in Middle School. See placement suggestions below:

Grade 9	Grade 10	Grade 11	Grade 12
French 2 H* French 2 ACP**	French 3 H French 3 ACP	French 4 H French 4 ACP	French 5 AP French 5 H French 5 ACP
Spanish 2 H* Spanish 2 ACP**	Spanish 3 H Spanish 3 ACP	Spanish 4 H Spanish 4 ACP	Spanish 5 AP Spanish 5 H Spanish 5 ACP
Mandarin 2 H* Mandarin 2 ACP**	Mandarin 3 H Mandarin 3 ACP	Mandarin 4 H Mandarin 4 ACP	Mandarin 5 H Mandarin 5 ACP

***The HONORS** sequence of courses is for students who have completed the Middle School program with a B average or better.

****The ACP** sequence of courses is for students who have completed the Middle School program with a C-average or better.

1- For students who want to add to or begin their study of a Foreign Language at FHS:

Year 1	Year 2	Year 3	Year 4
French 1 CP* French 1 ACP	French 2 CP* French 2 ACP / H	French 3 ACP / H	French 4 ACP / H
Spanish 1 CP Spanish 1 ACP	Spanish 2 CP Spanish 2 ACP / H	Spanish 3 CP Spanish 3 ACP / H	Spanish 4 ACP / H
Mandarin 1 H Mandarin 1 ACP	Mandarin 2 H Mandarin 2 ACP	Mandarin 3 H Mandarin 3 ACP	Mandarin 4H Mandarin 4 ACP
ASL 1 ACP / 1H	ASL 2 H / ACP	ASL 3H / 3CP	ASL 4H / ACP

*The CP sequence of courses is for students who have had an interrupted Middle School program or have completed the Middle School program with a D+ average or lower. The CP sequence of courses in the middle school program over two years. Students may not start this sequence of courses at the 2CP level. Please note, for those students wishing to complete a third year of a World Language course, placement in a French 2 ACP or Spanish 3 CP course requires the teacher's recommendation.

Please note:

1. The French and Spanish 1 ACP courses are accelerated, one-year courses. They are the equivalent of completing the three year Middle School language sequence in one year and are intended for those who have not previously taken the language. These courses will prepare students to enter French or Spanish 2 ACP or H, based on teacher recommendation the following year.
2. The minimum WL requirement for graduation from Framingham High School is two years of study of **the same language.**
3. The recommended WL course of studies from the Department of Education Frameworks and most colleges and universities range from 3-4 years of study of the same language

Course Descriptions

FRENCH

French CP Sequence of Courses

Please note, students may not start this sequence of courses at the 2CP level.

120 French 1 CP

Level: CP

Credit: 1.0

Prerequisites: Students who did not complete the 3 year Middle School Language program or students who completed the Grade 6, 7, 8 French curriculum with a D+ or lower.

This is a beginning course for students with limited or significantly interrupted French language experience. Students begin by developing listening and speaking skills which are then reinforced and used to build skills in reading and writing. Teacher-created materials form the basis for the course. The course is enriched with francophone culture, music, art and history.

Grade Level: 9, 10, 11

Fulfills: World Language Credit

127 French 2 CP

Level: CP

Credit: 1.0

This is the second year of a two-year sequence. Students will continue to develop and use vocabulary and major grammatical structures in speaking, listening, reading and writing. Further cultural awareness will be stimulated by oral presentations, written reports and special projects. The course is enriched with francophone culture, music, art and history.

Grade Level: 10, 11, 12

Prerequisites: French 1 CP

Fulfills: World Language Credit

French ACP Sequence of Courses

101 French ACP

Level: ACP

Credit: 1.0

Prerequisites: Students who did not complete the 3 year Middle School Language program or wish to begin the study of the French language.

This is an accelerated course for students who are capable of completing the three year Middle School language sequence in one year. It will prepare students to enter French 2ACP or French 2 Honors the following year.

***Note:** Please consider individual students' language experiences when making recommendations. Please forward any questions to the World Languages department chair. Seniors who wish to take this course must have already completed the 2 year language requirement in a different language.

Grade Level: 9, 10, 11, 12

Fulfills: World Language Credit

104 French 2 ACP**Level: ACP****Credit: 1.0****Prerequisites: Completion of Grades 6, 7, 8 French curriculum and recommendation from Grade 8 teacher or French 1 ACP with a C- average or better.**

This is the continuing course for students completing the 3-year Middle School French Program, or French 1 ACP. Students will review and recycle basic grammatical structures in different contexts while continuing to expand communication skills in speaking, listening, reading, and writing. Cultural awareness is stimulated through oral presentations, written reports, and special projects. The cultural focus of the level two curriculum is France and its cities. The course is enriched with francophone culture, music, art and history.

Grade Level: 9, 10,11, 12**Fulfills: World Language Credit****107 French 3 ACP****Level: ACP****Credit: 1.0**

Emphasis is placed on continued development of vocabulary and major grammatical structures including verb tenses from year two and the conditional and future, as well as an introduction to the subjunctive mood. Students are required to demonstrate spoken and written ability in order to function in situations authentic to the cultures of the French speaking world. They will be using French in all oral and written activities in class. The cultural focus of the level three curriculum is France and its regions. The course is enriched with francophone culture, music, art and history

Grade Level: 10,11, 12**Prerequisites: French 2 ACP****Fulfills: World Language Credit****110 French 4 ACP****Level: ACP****Credit: 1.0**

This course is recommended for students wishing to continue the study of French and advance beyond the normal 2-year college requirement at the ACP Level. Students will develop additional skill and proficiency in their use of all grammatical structures. Emphasis is placed on expanding vocabulary through reading selections from French prose and poetry. Students are required to engage in class and group discussions in French. The course is enriched with francophone culture, music, art and history. Various textbooks and supplementary materials and selections from French literature are used. The cultural focus of the level four curriculum is the Francophone world.

Grade Level: 11, 12**Prerequisites: French 3 ACP****Fulfills: World Language Credit****French Honors/Advanced Sequence of Courses****103 French 2 H****Level: Honors****Credit: 1.0****Prerequisites: Students completed the Grades 6, 7, 8 French curriculum with a B average or better and recommendation from Grade 8 teacher or French 1 ACP with a B average or better.**

This course is the continuum for students who have successfully completed the 3-year Middle School French program. Students will use major tenses and grammatical structures as they expand their vocabulary and conversational skills. Students will continue to develop their skills in reading, writing, speaking and listening and will be required to use French in class discussions, oral presentations, written reports and special projects. The cultural focus of the level two curriculum is France and its cities. This course is enriched with francophone culture, music, art and history.

Grade Level: 9, 10, 11, 12**Fulfills: World Language Credit****106 French 3 H****Level: Honors****Credit: 1.0**

Students will continue to develop conversational skills using additional tenses and structures. Reading and writing will be emphasized through selected texts and writing assignments. Students will produce individual projects and engage in cultural activities. The cultural focus of the level three curriculum is France and its regions. This course is enriched with francophone culture, music, art and history.

Grade Level: 10, 11, 12**Prerequisites: French 2 H****Fulfills: World Language Credit**

109 French 4 H
Level: Honors
Credit: 1.0

Grade Level: 11, 12
Prerequisites: French 3 H
Fulfills: World Language Credit

In addition to continuing the development of proficiency with the four language skills, emphasis will be placed on continual development of grammatical structures and vocabulary power. Intensive grammar review as well as expanded ability for meaningful personal expression will be stressed. Students will engage in authentic readings, individual and/or group projects and cultural activities. The class will be conducted in French. The cultural focus of the level four curriculum is the Francophone world. This course is enriched with francophone culture, music, art and history.

112 Advanced Placement French Language and Culture AP
Level: AP
Credit: 1.0

Grade Level: 12
Prerequisites: French 4 H
Fulfills: World Language Credit

An in depth review and reinforcement of grammar, verbs and vocabulary, this course is the equivalent of a third semester college course. It will follow the prescribed AP curriculum. Students will be prepared for and expected to take the AP examination in Language. Class will be conducted in French. The cultural focus of the AP curriculum is the contributions of the French to world culture.

This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

MANDARIN CHINESE

Mandarin Chinese ACP Sequence of Courses

142 Mandarin Chinese 1 ACP
Level: ACP
Credit: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: World Language Credit

This course is an introduction to Mandarin Chinese. The course will provide students with the basic tools for speaking, reading, writing, and understanding Mandarin Chinese. The course will include several components, including oral communication with a focus on pronunciation and intonation as well as reading and writing with simplified Chinese characters. Additionally, the course will allow students to immerse themselves in the exploration of Chinese culture. We aim to build students' confidence, allowing them to attain proficiency at the beginner's level, encouraging them to experiment, practicing unfamiliar concepts and words, and gaining sufficient practice in a learning environment reflective of the greater community in which the language is spoken.

****Note:*** Please consider individual students' language experiences when making recommendations. Please forward any questions to the World Languages department chair. Seniors who wish to take this course must have already completed the 2 year language requirement in a different language.

144 Mandarin Chinese 2 ACP
Level: ACP
Credit: 1.0

Grade Level: 9, 10, 11, 12
Fulfills: World Language Credit

Prerequisites: Successful completion of the middle school Mandarin program or Mandarin Chinese 1 ACP

The objective of this course is to build upon the conceptual foundations established in Mandarin Chinese 1. This course will allow students to develop mastery of Mandarin Chinese vocabulary and language structures. The goal will be to increase proficiency in oral comprehension and in speaking, reading and writing skills in Mandarin Chinese. Written and oral precision will be emphasized. Cultural content will be incorporated into instruction as students continue to learn about aspects of Mandarin Chinese culture and civilization.

146 Mandarin Chinese 3 ACP
Level: ACP
Credit: 1.0

Grade Level: 10, 11, 12
Prerequisite: Mandarin Chinese 2 ACP
Fulfills: World Language Credit

In this course, students will further develop vocabulary skills to be able to engage in conversations related to various topics. They will demonstrate their ability to express themselves in spoken Chinese language using complex sentence patterns, while still developing their writing, listening, and reading skills. Students will work towards oral fluency. Students will also engage in cultural Chinese activities.

148 Mandarin Chinese 4 ACP**Level: ACP****Credit: 1.0**

This course devotes equal attention to listening, speaking, reading and writing proficiencies. Students will be more active and creative with the language on a variety of practical topics. Students should be committed to improving speaking fluency. Authentic video, audio and print materials are used at this level to supplement the text and to teach strategies for understanding more advanced material. Students will improve their Chinese language skills through the study of pop culture and music. Students will appreciate Chinese culture in greater depth after taking this course.

Grade Level: 11, 12**Prerequisite: Mandarin Chinese 3 ACP****Fulfills: World Language Credit****164 Mandarin Chinese 5 ACP****Level: ACP****Credit: 1.0****Prerequisite: Mandarin Chinese 4 ACP or teacher recommendation**

This course is a year of synthesis and refinement of the students' language skills. Chinese is the primary language of the classroom. Students learn an additional 400 Chinese characters and more sophisticated grammar structures and sentence patterns. Frequent essay writing and oral presentations consolidate students' skills both orally and in writing. Individual and group projects using authentic resources are the means to further expand students' knowledge of Chinese culture in its past, present and future. Topics include American and Chinese education; Chinese folktales and idioms; Chinese Literature – 4 classic novels; and youth culture.

Grade Level: 12**Fulfills: World Language Credit****Mandarin Chinese Honors Sequence of Courses****141 Mandarin Chinese 1 H****Level: Honors****Credit: 1.0**

This course is an introduction to Mandarin Chinese. The course will provide students with the basic tools for speaking, reading, writing, and understanding Mandarin Chinese. The course will include several components, including oral communication with a focus on pronunciation and intonation as well as reading and writing with simplified Chinese characters. Additionally, the course will allow students to immerse themselves in the exploration of Chinese culture. We aim to build students' confidence, allowing them to attain proficiency at the beginner's level, encouraging them to experiment, practicing unfamiliar concepts and words, and gaining sufficient practice in a learning environment reflective of the greater community in which the language is spoken.

***Note:** Please consider individual students' language experiences when making recommendations. Please forward any questions to the World Languages department chair. Seniors who wish to take this course must have already completed the 2 year language requirement in a different language.

Grade Level: 9, 10, 11, 12**Prerequisite: None****Fulfills: World Language Credit****143 Mandarin Chinese 2 H****Level: Honors****Credit: 1.0****Prerequisite: Successful completion of the middle school Mandarin program or Mandarin 1H**

The objective of this course is to build upon the conceptual foundations established in Mandarin Chinese I. This course will allow students to develop mastery of Mandarin Chinese vocabulary and language structures. The goal will be to increase proficiency in oral comprehension, speaking, reading and writing skills in Mandarin Chinese. Written and oral precision will be emphasized. Cultural content will be incorporated into instruction as students continue to learn about aspects of Mandarin Chinese culture and civilization.

Grade Level: 9, 10, 11, 12**Fulfills: World Language Credit****145 Mandarin Chinese 3 H****Level: Honors****Credit: 1.0**

In this accelerated course, students will further develop adequate vocabulary skills and appropriate language forms to be able to engage in conversations related to various topics. They will demonstrate their ability to express themselves in spoken Chinese language using complex sentence patterns, while still developing their writing, listening, and reading skills. Students will work towards oral fluency through conversation, discussion, and oral presentations. Students will successfully handle a variety of communicative tasks in straightforward social situations. Students will also engage in cultural Chinese activities. There will also be a focus on the study of historical and current Chinese events.

Grade Level: 10, 11, 12**Prerequisite: Mandarin 2 H****Fulfills: World Language Credit**

147 Mandarin Chinese 4 H**Level: Honors****Credit: 1.0**

This course devotes equal attention to listening, speaking, reading and writing proficiencies. Students will be more active and creative with the language on a variety of practical topics. Students should be committed to improving speaking fluency. Authentic video, audio and print materials are used at this level to supplement the text and to teach strategies for understanding more advanced material. Students will improve their Chinese language skills through the study of pop culture and music. Students will appreciate Chinese culture in greater depth after taking this course.

Grade Level: 11, 12**Prerequisite: Mandarin 3 H****Fulfills: World Language Credit****163 Mandarin Chinese 5 H****Level: Honors****Credit: 1.0**

This course is a year of synthesis and refinement of the students' language skills. Chinese is the primary language of the classroom. Students learn an additional 400 Chinese characters and more sophisticated grammar structures and sentence patterns. Frequent essay writing and oral presentations consolidate students' skills both orally and in writing. Individual and group projects using authentic resources are the means to further expand students' knowledge of Chinese culture in its past, present and future. Topics include American and Chinese education; Chinese folktales and idioms; Chinese Literature – 4 classic novels; and youth culture.

Grade Level: 12**Prerequisite: Mandarin 4 H****Fulfills: World Language Credit****137 AP Mandarin Language and Culture AP****Level: Advanced Placement****Credit: 1.0**

The AP Mandarin Language & Culture course is designed to provide students with various opportunities to further improve their proficiency in listening, speaking, reading, and writing skills to be ready for the AP Chinese exam held every May. This course is the equivalent of a third semester college course. It will follow the prescribed AP curriculum. Students will be prepared for and expected to take the AP examination in Language and Culture.

Grade Level: 12**Prerequisite: Mandarin 4 H and teacher rec.****Fulfills: World Language Credit**

This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

SPANISH**Spanish CP Sequence of Courses**

Please note, students may not start this sequence of courses at the 2CP level.

128 Spanish 1 CP**Level: CP****Credit: 1.0**

Prerequisites: Students who did not complete the 3 year Middle School Language program or students who completed the Grade 6, 7, 8 Spanish curriculum with a D+ or lower

This is a beginning course for students with limited target language experience. Students begin by developing listening and speaking skills, which are then reinforced and used to build skills in reading and writing. This course is enriched with culture, music, art, and history. Teacher created-materials form the basis for the course.

Grade Level: 9, 10, 11**Fulfills: World Language Credit****129 Spanish 2 CP****Level: CP****Credit: 1.0**

This is the second year of a three-year sequence. Students will continue to develop and use vocabulary and major grammatical structures in speaking, listening, reading and writing. . This course is enriched with culture, music, art and history. Further cultural awareness will be stimulated by oral presentations, written reports and special projects.

Grade Level: 10,11, 12**Prerequisites: Spanish 1 CP****Fulfills: World Language Credit**

Spanish ACP Sequence of Courses

171 Spanish 1 ACP

Level: ACP

Credit: 1.0

Prerequisites: Students who did not complete the 3 year Middle School Language program or wish to begin the study of the Spanish language.

Grade Level: 9, 10,11, 12

Fulfills: World Language Credit

This is an accelerated course for students who are capable of completing the three year Middle School language sequence in one year. It will prepare students to enter Spanish 2ACP or Spanish 2 Honors the following year.

***Note:** Please consider individual students' language experiences when making recommendations. Please forward any questions to the World Languages department chair. (Full year course, open to all grades). Seniors who wish to take this course must have already completed the 2 year language requirement in a different language.

174 Spanish 2 ACP

Level: ACP

Credit: 1.0

Prerequisites: Completion of Grades 6, 7, 8 Spanish curriculum and recommendation from Grade 8 teacher or Spanish 1 ACP with a C- average or better.

Grade Level: 9, 10, 11, 12

Fulfills: World Language Credit

This is the continuing course for students completing the 3 -year Middle School Spanish Program. Students will review and recycle basic grammatical structures in different contexts while continuing to expand communication skills in speaking, listening, reading, and writing. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

177 Spanish 3 ACP

Level: ACP

Credit: 1.0

Emphasis is placed on continued development of vocabulary and major grammatical structures including verb tenses in present, past, future and conditional. Students are required to demonstrate spoken and written ability in order to function in situations authentic to the cultures of the target language. Students will use Spanish in all oral and written activities in class. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

Grade Level: 10,11, 12

Prerequisites: Spanish 2 ACP

Fulfills: World Language Credit

180 Spanish 4 ACP

Level: ACP

Credit: 1.0

This course is recommended for students wishing to continue the study of Spanish, and advance beyond the normal 2-year college requirement at the ACP Level. Students will develop additional skills and proficiency in their use of all grammatical structures. Emphasis is placed on expanding vocabulary through reading selections from Spanish prose and poetry. Students are required to engage in class and group discussions in Spanish. Various textbooks and supplementary materials and selections from Spanish Literature are used. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

Grade Level: 11, 12

Prerequisites: Spanish 3 ACP

Fulfills: World Language Credit

184 Spanish 5 ACP

Level: ACP

Credit: 1.0

Students will continue to develop language skills by reading and discussing selected literary works. The course is conducted in Spanish with an emphasis on reports and projects. The course is enriched with music, art, culture and history. The course is based on teacher-created materials drawn from a variety of resources. This course is conducted in Spanish.

Grade Level: 11, 12

Prerequisites: Spanish 4 ACP

Fulfills: World Language Credit

Heritage Spanish Sequence of Courses

196 Heritage Spanish 1 H

Level: Honors

Credit: 1.0

Prerequisites: Ability to comprehend and speak Spanish at an intermediate-advanced level.

This course is designed for students whose first Language is Spanish in need of support in improving their language skills. Students will explore Latin-American heritage and traditions through art, culture, history, music and literature.

Grade Level: 9, 10, 11, 12

Fulfills: World Language Credit

The class will focus on improving oral fluency while developing formal reading and writing skills. All instruction is in Spanish, all students will be expected to participate fully in Spanish at all times.

197 Heritage Spanish 2 H

Level: Honors

Credit: 1.0

This course is designed for students whose first Language is Spanish in need of support in improving language skills. Students will explore Latin-American heritage and traditions through art, culture, history, music and literature. The class will focus on improving oral fluency while developing formal reading and writing skills. All instruction is in Spanish and all students will be expected to participate fully in Spanish at all times.

Spanish Honors/Advanced Sequence of Courses

Grade Level: 10, 11, 12

Prerequisites: Heritage Spanish 1H

Fulfills: World Language Credit

173 Spanish 2 H

Level: Honors

Credit: 1.0

Prerequisites: Completion of Grades 6, 7, 8 Spanish curriculum with a B average or better and recommendation from Grade 8 teacher or Spanish 1 ACP with a B average or better.

This course is the continuum for students who have successfully completed the 3-year Middle School Spanish program. Students will use major tenses and grammatical structures as they expand their vocabulary and conversational skills. Students will continue to develop their skills in reading, writing, speaking and listening and will be required to use Spanish in class discussion, oral presentations, written reports and special projects. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

Grade Level: 9,10, 11, 12

Fulfills: World Language Credit

176 Spanish 3 H

Level: Honors

Credit: 1.0

Students will continue to develop conversational skills using additional structures and verb tenses in the present, past, future and conditional. Reading and writing will be emphasized through selected texts and writing assignments. The course is enriched with music, art, culture and history. Students will produce individual projects and engage in cultural activities. This course is conducted in Spanish.

Grade Level: 10, 11, 12

Prerequisites: Spanish 2 H

Fulfills: World Language Credit

179 Spanish 4 H

Level: Honors

Credit: 1.0

In addition to continuing the development of proficiency with the four language skills, emphasis will be placed on continual development of grammatical structures and vocabulary power. Intensive grammar review as well as expanded ability for meaningful personal expression will be stressed. Students will engage in authentic readings, individual and/or group projects and cultural activities. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

Grade Level: 11, 12

Prerequisites: Spanish 3 H

Fulfills: World Language Credit

183 Spanish 5 H

Level: Honors

Credit: 1.0

While development of linguistic skills will continue, the core of the course will be the study of literature and exclusive use of the target language in classroom discussion and simulations of culturally authentic situations. The course is enriched with music, art, culture and history. This course is conducted in Spanish.

Grade Level: 11, 12

Prerequisites: Spanish 4 H

Fulfills: World Language Credit

182 Advanced Placement Spanish Language and Culture AP

Level: Advanced Placement

Credit: 1.0

An in-depth review and reinforcement of grammar, verbs and vocabulary, this course is the equivalent of a third semester college course. It will follow the prescribed AP curriculum. Students will be prepared for and expected to take the AP examination in Language. Class will be conducted in Spanish.

Grade Level: 12

Prerequisites: Spanish 4 H

Fulfills: World Language Credit

This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

010S Advanced Placement Seminar in Spanish AP
Level: Advanced Placement
Credit: 1.0

Grade Level: 12
Fulfills: World Language Credit

Prerequisites: Spanish 4 or 5 H, AP Spanish Language or Teacher Recommendation

AP Seminar in Spanish is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the QUEST inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. **This course is conducted in Spanish and is open to any student who is fluent in Spanish. The majority of the research done throughout the course is done in Spanish**

This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

192 Advanced Placement Spanish Literature & Culture AP
Level: Advanced Placement
Credit: 1.0

Grade Level: 12
Fulfills: World Language Credit

Prerequisite: A score of 4 or 5 on the AP Spanish Language Exam or Teacher Recommendation.

This course is intended for seniors who have a deep interest in literature and are capable of reading, discussing and writing about Spanish literature in the target language at the college level. Students will read and critically analyze a broad selection of works including short stories, poetry and plays beginning with the Middle Ages, continuing into The Golden Age, through 20th century literature. Writing and discussion will be integral parts of this course, as will an exploration of the cultural issues visible in the literature. As this course will be conducted entirely in Spanish, all students will be expected to participate fully in Spanish at all times. This course is equivalent to a fifth semester college course.

This course prepares students for the Advanced Placement examination given in May by the College Board. All students in this course are expected to register for and take the Advanced Placement examination. Financial aid is available for students who cannot pay their own registration fees.

AMERICAN SIGN LANGUAGE

American Sign Language Honors Sequence of Courses

108 American Sign Language 1 H
Level: Honors
Credit: 1.0

Grade Level: 9, 10, 11, 12
Prerequisites: None
Fulfills: World Language Credit

This course is an introduction to American Sign Language (ASL). The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on developing an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

165 American Sign Language 2 H
Level: Honors
Credit: 1.0

Grade Level: 10, 11, 12
Prerequisites: American Sign Language 1H
Fulfills: World Language Credit

This course is a continuation of the American Sign Language 1 Honors class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

166 American Sign Language 3 H**Level: H**
Credit: 1.0

This course is a continuation of the American Sign Language 2 Honors class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

Grade Level: 11, 12**Prerequisites: American Sign Language 2H**
Fulfills: World Language Credit**167 American Sign Language 4 H****Level: Honors**
Credit: 1.0

This course is a continuation of the American Sign Language 4 Honors class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

Grade Level: 11, 12**Prerequisites: American Sign Language 2H**
Fulfills: World Language Credit**American Sign Language Honors Sequence of Courses****181 American Sign Language 1 ACP****Level: ACP**
Credit: 1.0

This course is an introduction to American Sign Language (ASL). The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on developing an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

Grade Level: 9, 10, 11, 12**Prerequisites: None**
Fulfills: World Language Credit**105 American Sign Language 2 ACP****Level: ACP**
Credit: 1.0

This course is a continuation of the American Sign Language 2 ACP class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

Grade Level: 10, 11, 12**Prerequisites: American Sign Language 1 ACP**
Fulfills: World Language Credit**168 American Sign Language 3 ACP****Level: ACP**
Credit: 1.0

This course is a continuation of the American Sign Language 2 ACP class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

Grade Level: 11, 12**Prerequisites: American Sign Language 2 ACP**
Fulfills: World Language Credit**169 American Sign Language 4 ACP****Level: ACP**
Credit: 1.0

This course is a continuation of the American Sign Language 2 ACP class. The course will provide students with engaging practice in a learning environment that relies entirely on visual communication. The focus will be on continuing to develop an ASL vocabulary. The course will encourage interactive participation, allowing students to immerse themselves in and understand the language and Deaf Culture. With dynamic, eyes-on and hands-on

Grade Level: 12**Prerequisites: American Sign Language 3 ACP**
Fulfills: World Language Credit

experience, students will have the opportunity to discover the inseparability of Deaf language and culture.

WORLD LANGUAGE ELECTIVES

1012 Virtual Heritage Language H

Level: Honors

Credit: 1.0

Prerequisite: Students speak a language other than languages taught at Framingham High School or the language is part of their culture.

This course is open to students who would like to work independently to further their study of a language they speak or that is part of their culture that is not already taught at Framingham High School. Students must commit to this year-long course. The course is delivered via a virtual platform offered by the school. This course is designed for the self-motivated student who would like to expand their knowledge of their home and/or culture's language.

Grade Level: 9,10, 11, 12

Fulfills: World Language Credit

195 World Perspectives through Foreign Film ACP

Level: ACP

Credit: 0.5

Prerequisites: Students have successfully fulfilled their two-year World Language Requirement

This course is open to students who have completed their two-year World Language requirement. This semester course will explore world cultural perspectives through foreign films. It will cover a wide range of themes relevant to the global society within different contexts: sports, immigration, social and economic class, psychology, politics, war. We will also look at different genres of films from around the world, for example: short films, comedy, drama, fantasy, documentary, musical. All films will be shown in their original languages with English subtitles. All discussions and assessments will be in English. **This course will be conducted in English.**

Grade Level: 11, 12

Fulfills: World Language Credit

135 Exploring World Languages ACP

Level: ACP

Credit: 0.5

Prerequisites: Students have successfully fulfilled their two-year World Language Requirement

Language is all around us. It allows us to communicate. But how we use language changes based on the situation, and each of the world's 7,000 languages will use language differently. In this course, we will look at what language is, what languages exist in the world (beyond the ones you're most likely familiar with), and how language and culture are linked. **This course is taught in English. This course also can count as a History credit.**

Grade Level: 11,12

Fulfills: World Language Credit

136 Exploring World Languages H

Level: Honors

Credit: 0.5

Prerequisites: Students have successfully fulfilled their two-year World Language Requirement

Language is all around us. It allows us to communicate. But how we use language changes based on the situation, and each of the world's 7,000 languages will use language differently. In this course, we will look at what language is, what languages exist in the world (beyond the ones you're most likely familiar with), and how language and culture are linked. **This course is taught in English.**

Grade Level: 11,12

Fulfills: World Language Credit

149a Films from the Spanish-Speaking World H

Level: Honors

Credit: 1.0

Prerequisites: Students have successfully fulfilled their two-year World Language Requirement and the ability to comprehend and speak Spanish at an intermediate-advanced level.

This course is open to students who have completed their two-year World Language requirement in Spanish. This **semester** course will explore world cultural perspectives of the Spanish-speaking world through film. It will look at different genres of films: mystery, comedy, drama, fantasy, documentary, and musical. It will cover a wide range of themes relevant to the history and current global conditions of the Spanish-Speaking world. All films will be shown in their original languages. All discussions and assessments will also be in Spanish. **This course is taught in Spanish.**

Grade Level: 11, 12

Fulfills: World Language Credit

149b Films from the Spanish-Speaking World ACP**Level: ACP****Credit: 1.0****Grade Level: 11, 12****Fulfills: World Language Credit****Prerequisites: Students have successfully fulfilled their two-year World Language Requirement and the ability to comprehend and speak Spanish at an intermediate-advanced level.**

This course is open to students who have completed their two-year World Language requirement in Spanish. This semester course will explore world cultural perspectives of the Spanish-speaking world through film. It will look at different genres of films: mystery, comedy, drama, fantasy, documentary, and musical. It will cover a wide range of themes relevant to the history and current global conditions of the Spanish-Speaking world. All films will be shown in their original languages. All discussions and assessments will also be in Spanish. **This course will be conducted in Spanish.**

157 Literature from Spain and the Spanish Speaking Americas in Translation H**Level: Honors****Credit: 0.5****Grade Level: 11, 12****Fulfills: World Language Credit****Prerequisite: Students have successfully completed their two-year Spanish World Language requirement.**

This course will run first semester and is designed for students who have completed their two year language requirement at FHS. It will focus on the Conquest through Independence from Spain through literature written during this time. We will analyze, discuss, and write about ways in which historical chronicles, poetry, and novels illustrate the viewpoints and circumstances of the diverse populations in the Spanish-speaking world. Students who complete this course may choose to go on to the semester two course which is taught entirely in Spanish and covers independence through present day. **This course will be conducted in Spanish and English.**

Semester 1: Conquest through Independence // Semester 2: Independence through the Present Day

158 Literature from Spain and the Spanish Speaking Americas in Spanish H**Level: Honors****Credit 0.5****Grade Level: 11, 12****Fulfills: World Language Credit****Prerequisite: Students have successfully completed their two-year Spanish World Languages requirement.**

This course is designed for students who have completed Spanish 3 or higher at FHS. This course will be taught entirely in Spanish and will focus on literature written during the fight for independence from Spain through the present day. We will analyze, discuss, and write about ways in which historical chronicles, poetry, and novels illustrate the viewpoints and circumstances of the diverse populations in the Spanish speaking world. Students are not required to complete the semester one translation course to take this course. **This course will be conducted in Spanish.**

Semester 1: Conquest through Independence // Semester 2: Independence through the Present Day

159 Spanish Translation and Interpretation H - Part One**Level: Honors****Credit: 0.5****Grade Level: 11,12****Fulfills: World Language Credit****Prerequisites: Students have successfully fulfilled their two-year World Language Requirement and have the ability to comprehend and speak Spanish at an intermediate-advanced level.** This semester course is

open to students who have completed their two-year World Language requirement in Spanish. This course will explore translation techniques as well as strategies for real-life interpretation. It will look at different genres of texts. Semester one will focus on scientific, legal and economic texts. The texts will be either translated into English or Spanish depending on the original language. All discussions and assessments will be in Spanish and English. **This course will be conducted in Spanish and English**

160 Spanish Translation and Interpretation H - Part Two**Level: Honors****Credit: 0.5****Grade Level: 11,12****Fulfills: World Language Credit****Prerequisites: Students have successfully fulfilled their two-year World Language Requirement and the ability to comprehend and speak Spanish at an intermediate-advanced level.**

This course will explore translation techniques as well as strategies for real-life interpretation. You DO NOT have to take Spanish Translation and Interpretation - Part One in order to take this class. It is open to students who have

completed their two-year World Language requirement in Spanish. It will look at different genres of texts. The focus of this semester will be cinematic and literary texts. The texts will be either translated into English or Spanish depending on the original language. All discussions and assessments will be in Spanish and English. **This course will be conducted in Spanish and English.**

Additional Programming

Early College Program

In collaboration with the Framingham State University, MassBay Community College, and the MetroWest College Planning Collaborative, we are excited to support the MetroWest Early Start Program (MWES). The MWES allows students at Framingham High School to enroll in and receive support to attend college level classes while attending FHS. Students in MWES have access to a wide variety of supports outside of the classroom and are expected to take at least three to four college level courses prior to graduating from FHS. Courses taken through the MWES program are added to the student's transcript for credits but not weighted in the student's GPA. The only exception is if the college course is co-taught by a Framingham High School teacher. In that specific co-taught courses, the class is weighted the same as a AP level course.

583.FHS-01003-FSU (ENGL 111 Reading Literature)

Level: Dual Enrollment

Credit: 1.0 FHS Credit/ 3.0 College Credits

An introduction to critical reading and discussion of poetry, prose, and drama for the purpose of increasing the student's appreciation of the dynamics between themes and forms in the art of literature. Some sections emphasize literary forms and others philosophical, moral, or social themes.

Grade Level: 9, 10,11, 12

Prerequisites: None

Fulfills: Elective Credit

583.FHS-1003.FSU (ENGL 124 Reading Literature and Social Justice)

Level: Dual Enrollment

Credit: 1.0 FHS Credit/ 3.0 College Credits

An exploration of literature's role in raising awareness about and engaging with civil rights and human rights. How can literary artistry encourage us to imagine the complexity of social justice issues? Readings address topics such as racism, sexism, poverty, religious discrimination, genocide, and children's rights

Grade Level: 9, 10,11, 12

Prerequisites: None

Fulfills: Elective Credit

220d.FHS (MATH 105 Quantitative Reasoning)

Level: Dual Enrollment

Credit: 1.0 FHS Credit/ 3.0 College Credits

An immersion in quantitative problem-solving, as it relates to real-world scenarios, with the goal of producing citizens and workers capable of making informed decisions. Topics related to numbers in the news, financial mathematics, mathematical modeling, and probability and statistics enable students to sharpen their previously learned arithmetic and algebra skills. An emphasis is placed on critical reading, sound reasoning, and precise oral and written communication in various applied situations.

Grade Level: 9, 10, 11, 12

Prerequisites: Satisfactory score on math placement exam

Fulfills: Elective Credit

583.FHS-99999-FSU (BIOL 109L Introduction to Biological Science w/ Lab)

Level: Dual Enrollment

Credit: 1.0 FHS Credit/ 3.0 College Credits

An introduction to the fundamental concepts of biological science. Topics include structures and processes from molecules to organisms, inheritance and variation of traits, ecosystem interactions, energy and dynamics, and biological evolution. Emphasis is placed on scientific interpretation as well as content. Laboratory (3 hours).

Grade Level: 9, 10,11, 12

Prerequisites: None

Fulfills: Elective Credit

583.FHS-BT101-MBC (BT 101 Introduction to Biotechnology)

Level: Dual Enrollment

Credit: 1.0 FHS Credit/ 3.0 College Credits

In this hands-on laboratory course students are introduced to the scientific method, key biotechnology methodologies, and data analysis through their participation in an ongoing molecular research project(s) conducted by the Biotechnology Program called the "Grand Project." The research and training emphasis will be on gene structure and function and the analysis of gene expression using the electrophoresis based methodologies : Western-, Northern-, and Southern-blot hybridization analysis . Students will also be introduced to mammalian cell culture and the selection of cell lines to meet research purposes. In addition, this course will place considerable emphasis on the teaching of bioethics. 3 Credits.

Grade Level: 9, 10,11, 12

Prerequisites: None

Fulfills: Elective Credit

Corequisites: CH 110 , BI 110

583.FHS-BT222.MBC (BT 222 Cell & Gene Therapy)**Level: Dual Enrollment****Credit: 1.0 FHS Credit/ 3.0 College Credits**

This course teaches state-of-the-art strategies, techniques, and approaches employed in the ever-expanding cell and gene therapy field, biomanufacturing process, and biopharma R&D. After completing this course, students will be familiar with critical analytical techniques like -PCR, qPCR, dd PCR, SDS - PAGE, ELISA, SAGE, NGS, DNA/RNA/Protein therapeutics, drug target identification, various drug and gene delivery methods, viral-based drug delivery (Electroporation, CRISPR, Lentivirus), knowledge of Potency assay, Pre-clinical & Clinical trials, production and purification of therapeutic substance, cGMP quality and compliance strategy, Stem cell culture, Flow cytometry, FACS, Ion-exchange chromatography, HPLC, and AKTA filtration. Emphasis is placed on the -Aseptic techniques, Cell culture expansion, Transfection, Production, and purification of Baculovirus, Adeno Associated Virus (AAV) - mediated transduction of CHO cells, HEK- 293 cells, and insect cells (sf9 cells).

Grade Level: 10,11, 12**Prerequisites: BT 101****Fulfills: Elective Credit****583.FHS-SO221.MBC (SO 221 Drugs and Society)****Level: Dual Enrollment****Credit: 1.0 FHS Credit/ 3.0 College Credits**

Examines drug use, abuse, and regulation from a social and public health perspective. Emphasizes the social, economic, political, and legal issues concerning drug use and abuse, drug policy, drug enforcement; the impact of drugs on individuals, communities, and society. Lecture: 3 hours per week. 3 Credits.

Grade Level: 9, 10, 11, 12**Prerequisites: None****Fulfills: Elective Credit****470.FHS (SO CI 101 Introduction to Sociology)****Level: Dual Enrollment****Credit: 1.0 FHS Credit/ 3.0 College Credits**

An introduction to sociological perspectives on society. Students examine the basic concepts, research, and theories that sociologists use to increase understanding of often hidden social patterns, processes, and structures that shape everyday lives. Students explore such topics as culture, socialization, social interaction, social organization, and social institutions, as well as social issues in modern society. Special attention is given to social inequalities of race/ethnicity, class, and gender.

Grade Level: 9, 10,11, 12**Prerequisites: None****Fulfills: Elective Credit**

Student Success Academy Programs

908 Career Development Program

Level: Unleveled

Credit: 1.5

The Career Development Program (Work Study) provides an opportunity for students to continue their education and at the same time gain valuable work experience under school supervision. This may include internships through opportunities available within the program and partners. Students participating in the program carry four (4) academic subjects and are employed in the community during the remainder of the school day. A student can earn up to three (3) credits per year for successful participation in the program. For students in grade 11, selection is based upon the approval of grade administrator, guidance counselor, and/or Career Development Coordinator. A student must be sixteen (16) years of age in order to enter the program. Students in the Work Study Program fulfill the same graduation requirements as other students. Students are expected to maintain an acceptable academic average and attendance in order to remain in the program. Students will not receive credit if they do not fulfill their academic requirements or if they do not perform satisfactorily on the job. Poor school attendance or chronic tardiness will cause a student to lose Career Development credit. This course is supported by the Student Success Academy.

Grade Level: 11, 12

Prerequisite: None

Fulfills: Practical Arts Credit

909 Career Exploration & Preparation

Level: Unleveled

Credit: 0.5

Career Exploration and Preparation is an exploratory course for grades 9 and 10 where students identify their skills and interests while also providing direction toward possible career choices. This course will provide an understanding of career awareness, self-determination, and employability skills through experiential and project-based learning. This course will help students create a 4-year high school plan that reflects their interests and career goals, empowering them to have out of school experiences that build their skills and eventually solidify their career pathway after graduation. Selection for this class is based upon approval of grade administrator, guidance counselor, and/or Career Development Coordinator.

Grade Level: 9, 10

Prerequisite: None

Fulfills: Practical Arts Credit

Independent Study

099 Independent Study English

Level: Unleveled

Credit: 0.5

Grade Level: 12

Prerequisite: None

Fulfills: Practical Arts Credit

299 Independent Study Mathematics

Level: Unleveled

Credit: 0.5

Grade Level: 12

Prerequisite: None

Fulfills: Practical Arts Credit

399 Independent Study Science

Level: Unleveled

Credit: 0.5

Grade Level: 12

Prerequisite: None

Fulfills: Practical Arts Credit

499 Independent Study History

Level: Unleveled

Credit: 0.5

Grade Level: 12

Prerequisite: None

Fulfills: Practical Arts Credit

These offerings allow students to be assigned to a curriculum-based study overseen by a teacher from that content area. This allows students additional help and support in that content area.

Academic Development Center

901 Academic Development Center Tutor

Level: Unleveled

Credit: 0.5

Grade Level: 11,12

Prerequisite: None

Fulfills: N/A

The Academic Development Center Tutors sign up with the ADC coordinator. They are paired with a teacher from another subject area to support the class during their assigned period. The objective of a tutor is to help the students in the class with content as a support staff. Their role is not to help the teacher with clerical or administrative work. Some responsibilities of a Tutor may include:

- Floating around the room helping all students in the classroom
- Helping students that were absent or are behind in content catch up (copy notes, go over material etc.)
- Language support - reinforcing concepts/directions in shared language (NOT directly translating instruction)
- Working with a small group of students

The Academic Development Coordinator will help pair students in a subject area of interest and strength as possible/available.

902 Academic Development Center Student

Level: Unleveled

Credit: 0.5

Grade Level: 9, 10

Prerequisite: None

Fulfills: N/A

The Academic Development Center may be available to all Framingham High School students upon request from students, teachers, parents, counselors, or administrators. The Academic Development Center (ADC) is a class where students are given the tools and support to develop the skills necessary for success in high school. All students in the ADC will work closely with the Coordinator to help develop these skills, specifically planning, organizing and prioritizing. Students will also learn how to navigate the various platforms used and resources available at the high school. Students are able to utilize their ADC period in an individualized way based upon their needs. This includes, but is not limited to, working on missing assignments, making up assessments/projects, meeting with teachers, counselors or other members of their support team. They may also access other school supports such as the writing center or math center. The goals for each student may vary, but they revolve around finding success in their classes. The goal of the ADC is to build academic independence to eventually transition out of the class at the end of the semester or school year.

RFL

897 RFL Seminar 1, 898 RFL Seminar 2

Level: Unleveled

Credit: 0.5

Grade Level: 9, 10, 11,12

Prerequisite: None

Fulfills: N/A

This course will provide students in the Resiliency for Life Program the opportunity to learn and practice the essential academic and communication skills necessary to be successful in high school. The course is designed to teach students a broad range of specific study strategies and how to best utilize each strategy. In addition, students will be taught stress-reduction and mindfulness techniques and will have opportunities for individualized academic support, lessons on college applications, job readiness, financial literacy and other topics as applicable.

Teacher's Aide

998 Teacher's Aide

Level: Unleveled

Credit: 0.5

Grade Level: 11,12

Prerequisite: None

Fulfills: N/A

This course offering allows students to be assigned to a period overseen by a teacher where they can support the teacher and/or class with tasks/expectations outlined by the teacher.