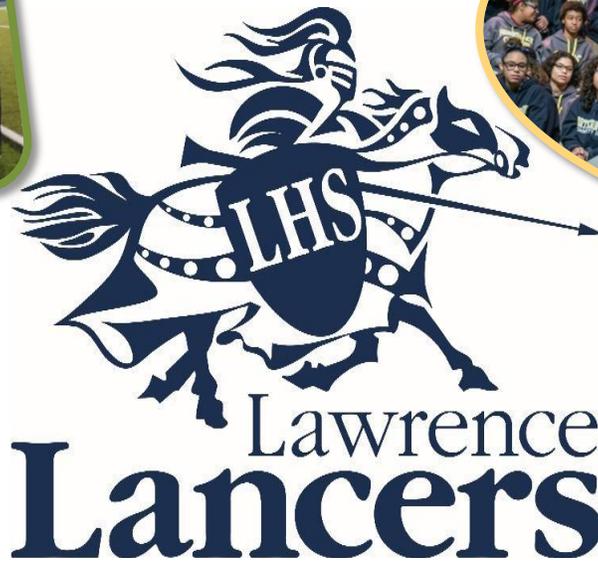


LAWRENCE HIGH SCHOOL



Program of Studies 2018-2019

[Lawrence High School Campus](#)

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Lawrence High School Core Values

Lawrence High School Core Values, Beliefs, and 21st Century Learning Expectations

CORE VALUES STATEMENT

Lawrence High School is a community of learners fully committed to nurturing and developing the skills and talents of our students that will be necessary for college and career readiness in the 21st century. The faculty at Lawrence High School provides students with a safe and positive learning environment in which the needs of our diverse student population are met through a variety of learning opportunities. Students will graduate from Lawrence High School as responsible, self-directed, lifelong learners who have a clear vision for their future, and who demonstrate perseverance, courage and professionalism in the face of adversity and are socially and civically engaged members of their community.

21st Century Learning Expectations

A Lawrence High School graduate will be able to:

Academic

- Communicate effectively with diverse audiences for a variety of purposes.
- Evaluate and synthesize information, and utilize that information effectively.
- Think critically to evaluate and solve complex problems.
- Collaborate effectively and actively with others to accomplish a wide array of goals and objectives.
- Support original claims and theses with logical arguments and evidence.
- Utilize current technology to conduct research, support critical thinking, enhance learning, and communicate with others.

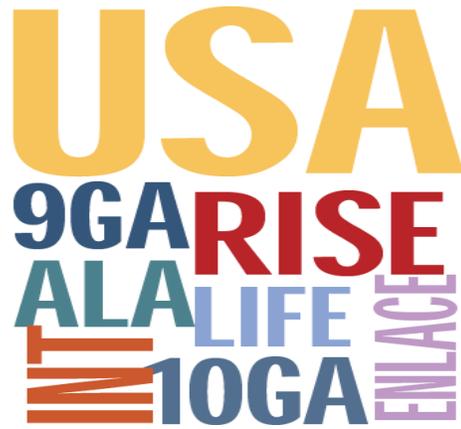
Civic

- Exercise the rights and obligations of citizenship at both local and global levels.
- Effectively participate in a democracy.
- Utilize networking skills and engage inclusively with others for social and civic purposes.

Social

- Exhibit empathy and compassion towards others.
- Act with resiliency and persistence when facing challenging tasks.
- Demonstrate responsible, respectful, and professional behavior.
- Demonstrate the ability to monitor individual strengths and weaknesses.
- Set and actualize short and long term goals using strong time management and organizational skills.

Lawrence High School Academies and Programs



9th (see the [9GA website](#) for additional information) and **10th** (see the [10GA website](#) for additional information) **Grade Academies at Lawrence High School:**

Both the 9th and 10th grade Academies at Lawrence High School exist to provide a smooth transition for students from middle school to high school, including specific supports and structures to address students' academic and social-emotional needs. Special focus is placed on content specific and cross content strategies that are aimed at increasing academic proficiency, with an emphasis on increasing literacy among all students, toward the ultimate goal of ensuring student success on high stakes testing at the 9th and 10th grade levels, and in their transition to the upper grades.

11th and 12th (see the [USA website](#) for additional information) **Upper School Academy at Lawrence High School:**

The focus of the upper grades will be to effectively prepare students for post-secondary success. Utilizing a "Personalized Pathway" model, students will have access to a wide-range of course trajectories and experiences that will engage students in "real-world" 21st Century experiences within and outside of the school. This will include early college, experiential learning through internships and capstone projects.

Abbott Lawrence Academy (see the [ALA website](#) for additional information):

Abbott Lawrence Academy (ALA) offers students in Lawrence an opportunity previously unavailable to most: the chance to experience a rich and rewarding honors education in the tradition of the most prestigious independent schools in the country, free of charge. ALA provides equal opportunity to all students in the city, leveling the playing fields for Lawrence students who want to accelerate their learning. ALA promises a first-of-its-kind experience: the personalization of an accelerated academic program combined with access to the robust enrichment programs available to LHS. The result is a school that challenges its students every day and ultimately prepares them for admission to the nation's most competitive colleges and universities.

International Academy (see the [INT website](#) for additional information):

The International High School (INT) is a newcomer program for over-aged and under credited ELLs in grades 9-12 who have been in the country for less than two years and have an English language proficiency score of 1.0-1.9 (Entering) on the WIDA scale. This newcomer program is designed to teach students English while also teaching rigorous content. INT also provides SLIFE (Students with Limited or Interrupted Formal Education) with additional support in acquiring the English language and content in order to graduate.

ENLACE (see the [ENLACE website](#) for additional information):

Engaging Newcomers in Language and Content Education (ENLACE) serves 9th and 10th grade ELLs who have been in the country for less than two years and have an English language proficiency score of 1.0-1.9 (Entering) on the WIDA scale. ENLACE will also serve 9th and 10th grade SLIFE (Students with Limited or Interrupted Formal Education). Our mission is to provide newcomer students with the academic and linguistic foundation and socio-emotional supports that will allow them to transition successfully and quickly into the mainstream high school environment, with the goal of pursuing the college or career of their choice. Through this process, we will empower our students to proudly and purposefully develop their multilingual and multicultural identities.

RISE (see the [RISE website](#) for additional information):

RISE is a trauma focused behavioral program that works to address the functions of student behavior and give students an environment and structure in which they can find success. RISE uses trauma sensitive practices and a restorative justice framework to build community, address conflict, and keep students accountable for their actions. RISE students are involved in their community through internships, vocational opportunities, and partnering with community agencies, and they are offered a rigorous Common Core based curriculum that results in a high school diploma.

LIFE (see the [LIFE website](#) for additional information):

Learning Independence for Everyday (LIFE) is designed to provide each student with an education that allows them to reach their highest level of independence in their daily life and in employment settings. The instructional focus includes functional academics, daily living skills, domestic skills, vocational skills, social emotional development, community awareness and self-advocacy skills to best prepare them for the competitive journey ahead. Student schedules mirror that of a regional vocational school with one week of academic classes and one week of vocational programming.

Lawrence High School Graduation Requirements



At the Lawrence High School Campus the focus of all courses is upon a student's mastery of the enduring understandings and essential skills of that content area. Because our mission is to be certain that every graduating student is prepared to meet the requirements of college and the workplace, a student cannot earn credits for a course unless (s)he demonstrates mastery of these enduring understandings and essential skills. Students who have not earned the required number of credits or who have not successfully completed the necessary course work by the time of graduation will be ineligible to participate in the graduation exercises.

Below are the current Lawrence High School graduation requirements. Students are responsible for knowing their credit status and for taking the courses required to meet graduation requirements. [MassCore](#) was developed to provide guidance for a rigorous course of study that will help provide students with the academic preparation required for success in postsecondary education and the workplace.

Content Area	LHS Graduation Requirements	MASS CORE Recommendations
English	4 years	4 years
Mathematics	4 years	4 years
Science	3 lab-based years	3 lab-based years
History/Social Studies	3 years	3 years
Fine Arts	Recommended	1 year
World Languages	Strongly Recommended	2 years
Health	1 semester	
Physical Education	2 semesters	

MCAS Competency Determination

Students must pass the English Language Arts and Mathematics MCAS Exams as well as an MCAS Science Exam.

For more information about MCAS graduation requirements visit the following DESE website:
<http://www.doe.mass.edu/mcas/graduation.html>

Grading Scale

A+	97-100	B+	87-89	C+	77-79	D+	67-69
A	94-96	B	84-86	C	74-76	D	65-66
A-	90-93	B-	80-83	C-	70-73	F	Below 65

P= Passing

W= Withdrawal when a student changes to a different level of the same course or subject

WP= Withdrawal from a course or subject area with a passing average

WF= Withdrawal from a course or subject area with a failing average due to grades or insufficient participation due to excessive absences

No notation of withdrawal will be made when you withdraw from a course before October 1 (fall semester) or March 1 (spring semester)

I= Incomplete

This grade is issued if you have not made up your work prior to the completion of the marking period. If the incomplete is still not made up by the end of the next marking period, an “F” will be assigned. An incomplete grade at the end of the 4th marking period without advance make-up arrangements will result in an “F”.

Class Rank

Your rank in class is determined by the difficulty of the course you have selected, the total number of credits of each course, and by your grades.

Weighted Scale Grade Point Value

Grade	Academic	Honors	AP/Dual Enrollment
A+	4.3	4.8	5.3
A	4.0	4.5	5.0
A-	3.7	4.2	4.7
B+	3.3	3.8	4.3
B	3.0	3.5	4.0
B-	2.7	3.2	3.7
C+	2.3	2.8	3.3
C	2.0	2.5	3.0
C-	1.7	2.2	2.7
D+	1.3	1.8	2.3
D	1.0	1.5	2.0
F	0	0	0

Lawrence High School Academic Courses



Academic Course Options by Grade Level

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English Language Arts – Course Descriptions	English I	English II	English III AP English Literature and Composition AP English Language and Composition Early College Options	English IV AP English Literature and Composition AP English Language and Composition Early College Options
History and Social Studies– Course Descriptions	World History AP Human Geography	United States History I	United States History II Early College Options	AP US History Early College Options
Mathematics– Course Descriptions	Algebra I Algebra I/Geometry	Geometry Algebra II	Algebra II College Algebra Probability and Statistics Precalculus Early College Options	College Algebra Probability and Statistics Precalculus Calculus AP Calculus AB Early College Options
Science– Course Descriptions	Biology	Anatomy and Physiology Environmental Science Chemistry Physics	Introduction to Engineering Design Chemistry Physics Early College Options	Anatomy and Physiology Introduction to Engineering Design Forensic Science Chemistry Physics AP Biology AP Chemistry AP Physics Early College Options
World Languages– Course Descriptions	Spanish I	Spanish I Spanish II Spanish III	Spanish I Spanish II Spanish III Spanish IV AP Spanish Language	Spanish I Spanish II Spanish III Spanish IV AP Spanish Language

For electives including arts, health and physical education choices, see the [specialized courses](#) and [pathways courses](#) sections of the Program of Studies.

Academic Course Levels

Courses are leveled as College Prep, Honors, Advanced Placement, and Early College.

Each level is described below:

➤ **College Prep:** College Prep courses combine challenging instruction with expectations consistent with what is required for success in a two- or four-year college or university. Placement is contingent on administration and/or guidance department approval.

➤ **Honors:** Honors courses combine rigorous and challenging instruction with high expectations for student commitment, participation, and achievement. The workload and pacing of these classes corresponds with those expectations. Those pursuing an academic pathway toward successful transition to a four-year college or university should enroll in these classes. Placement is contingent on administration and/or guidance department approval.

➤ **Advanced Placement (AP):** This is a program of college-level courses and exams for secondary school students sponsored by the College Entrance Examination Board. The exam is taken in May of the year that the student takes the course. This exam is graded on a scale of 1 to 5. Either college credit or advanced placement may be granted by the colleges. AP Courses are appropriate for those students who want college preparatory content with more rigorous tasks than they may find in an honors class. These classes require strong reading, writing, mathematical, and organizational skills.

➤ **Early College:** Early college courses with Northern Essex Community College and Merrimack College are available for eligible students on the NECC and Merrimack College campuses. Students may qualify for the Northern Essex Community College program by meeting or exceeding placement standards in the Accuplacer Test and by receiving the endorsement of their school's principal. Students may qualify for the Merrimack Early College program by maintaining a GPA of 3.3 or higher, taking a menu of rigorous courses, completing the Merrimack early college application, and receiving the endorsement of their school's principal. Please contact your school's guidance counselor for information on early college.

English Language Arts

The following courses will count toward the Lawrence High School Graduation Requirements for English Language Arts

014	English I Honors	Full Year
013	English I College Prep	Full Year

Students in first year English will read widely across literary genres including the novel, poetry, drama and nonfiction. They will write in a variety of forms, demonstrating their ability to develop a central idea, maintain a coherent focus, structure an essay, and use relevant examples, facts, and details. The course will provide direct instruction in basic research skills. It is important that first year English students begin to use the introspection necessary to consider who they are as both a student and as a global citizen; therefore, the course will focus on the theme of identity.

024	English II Honors	Full Year
023	English II College Prep	Full Year

Students in second year English will build on the knowledge they gain in their first year English course by reading a wide variety of fiction and nonfiction. They will learn to independently read critically and to compare and contrast ideas, themes, and concepts. Students will demonstrate their ability to produce coherent, well supported, and carefully crafted writing through a variety of assignments including explanatory, argumentative, and narrative writing. The course will focus on the theme of “portraits of human greatness,” as students explore both classic heroic archetypes, and modern day perceptions of everyday heroes.

034	English III Honors	Full Year
033	English III College Prep	Full Year

Students in third year English will continue to develop their skills in analyzing complex literary and informational text. Students will build knowledge, analyze ideas, and develop writing, collaboration and communication skills. Texts examined include work from Booker T. Washington, Elie Wiesel, Virginia Woolf and many others. This course will support student growth in all four domains; Reading, Writing, Speaking and Listening, and Language.

044	English IV Honors	Full Year
043	English IV College Prep	Full Year

Students in fourth year English will work with a wide range of high quality texts that engage students in analysis of autobiographical nonfiction, speeches, poetry, drama, and fiction. Students will build knowledge, analyze ideas, and develop writing, collaboration and communication skills. The classic and contemporary voices students will interact with include Malcolm X, Henry David Thoreau, Benizar Bhutto, Jared Diamond and William Shakespeare.

047	Advanced Placement Language and Composition	Full Year
<p>Following a syllabus approved by The College Board, the Advanced Placement English Language and Composition course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

045	Advanced Placement Literature and Composition	Full Year
<p>Following a syllabus approved by The College Board, the Advanced Placement English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Readings will be drawn from a wide spectrum of literature and literary non-fiction. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

932	Resource English	Full Year
<p>A full year English Language Arts course for students as recommended by their Individual Education Plan, Resource English is designed to instruct students in reading, writing and research skills in a small group setting outside the regular education classroom. The course will parallel the standards and content of the English I and II courses as appropriate to student needs. Students will read and write widely in a variety of forms and genres, including fiction and nonfiction.</p>		

History & Social Studies

The following courses will count toward the Lawrence High School Graduation Requirements for History & Social Studies

173	World History Honors	Full Year
177	World History College Prep	Full Year
<p>Students in this course will examine world events from 1500 to the present, including the Enlightenment, the French Revolution, industrialization, imperialism, World War I, Communism and Fascism, World War II, global independence movements, the Cold War, and modern world issues. The goal of this course is to develop critical thinking and writing skills. Students will begin to understand and interpret facts, an important step to becoming an informed and critical citizen. Students will be expected to explain their understanding through clear, concise, and college-level writing.</p>		

176	World History Survey College Prep	Full Year
<p>Grade 9 students study the rise of the nation state in Europe, the French Revolution, and the economic and political roots of the modern world. They study the origins and consequences of the Industrial Revolution, 19th century political reform in Western Europe, and imperialism in Africa, Asia, and South America. They will explain the causes and consequences of the great military and economic events of the past century, including World War I, the Great Depression, World War II, the Cold War, and the Russian and Chinese revolutions. Finally, students will study the rise of nationalism and the continuing persistence of political, ethnic, and religious conflict in many parts of the world.</p>		

111	U.S. History I Honors	Full Year
110	U.S. History I College Prep	Full Year
<p>Students in this course will examine United States history through the lens of American identity and rights. Students will be immersed in a thematic curriculum that connects present with the past and turns history into a narrative that forces students to make connections and think deeply about how the country was shaped by certain events, people and movements. Students will explore the theme of identity through examination of the American Revolution, Civil War, and Immigration. Within each of these core topics students will explore the essential question “how have our moral, philosophical, and cultural values shaped American identity?” Students will explore the theme of rights through examination of the Constitution and Civil Rights. Within each of these core topics students will explore the essential question “how has our concept of rights changed over time?” Students in US History will be required to complete a year-long research paper that focuses on a topic within the course.</p>		

121	U.S. History II Honors	Full Year
120	U.S. History II College Prep	Full Year
<p>Students in this course will examine United States history through the lens of economic opportunities and world affairs. Students will be immersed in a thematic curriculum that connects present with the past and turns history into a narrative that forces students to make connections and think deeply about how the country was shaped by certain events, people and movements. Students will explore the theme of economic opportunities through the examination of the Westward Expansion, the Industrial Revolution and the Great Depression/New Deal. Students in US History II will be required to complete a year-long research paper that focuses on a topic within the course.</p>		

142	Advanced Placement U. S. History	Full Year
<p>The AP Program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials (their relevance to a given interpretive problem, their reliability, and their importance) and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

122	Advanced Placement Human Geography	Full Year
<p>AP Human Geography is a 9th grade, yearlong course that focuses on the distribution, processes, and effects of human populations on the planet. The course provides a systematic study of human geography, including the following topics outlined in the Course Description: Nature of and Perspectives on Geography, Population, Cultural Patterns and Processes, Political Organization of Space, Agricultural and Rural Land Use, Industrialization and Economic Development, Cities and Urban Land Use. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

Mathematics

The following courses will count toward the Lawrence High School Graduation Requirements for Mathematics

213	Algebra I Honors	Full Year
211	Algebra I College Prep	Full Year
<p>This course addresses the MA Mathematics Curriculum Framework for Model Algebra 1. Algebra I is focused on four critical areas: (1) deepen and extend understanding of linear and exponential relationships; (2) contrast linear and exponential relationships with each other and engage in methods for analyzing, solving, and using quadratic functions; (3) extend the laws of exponents to square and cube roots; and (4) apply linear models to data that exhibit a linear trend. Students will be prepared to move on to Geometry.</p>		

249	Algebra I/Geometry Honors	Full Year
<p>This advanced course addresses both the MA Mathematics Curriculum Framework for Model Algebra 1 and Model Geometry. See those course descriptions above and below for content focus areas. Students will be prepared to move on to Algebra 2.</p>		

225	Geometry Honors	Full Year
226	Geometry College Prep	Full Year
<p>This course addresses the MA Mathematics Curriculum Framework for Model Geometry. Geometry is focused on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems; and (6) extend work with probability. Students will be prepared to move on to Algebra 2.</p>		

221	Algebra II Honors	Full Year
222	Algebra II College Prep	Full Year
<p>This course addresses the MA Mathematics Curriculum Framework for Model Algebra 2. Algebra 2 is focused on four critical areas: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. Students will be prepared to move on to either Precalculus or Probability and Statistics.</p>		

232	Precalculus Honors	Full Year
<p>This course addresses the MA Mathematics Curriculum Framework for Model Precalculus. Precalculus is focused on four critical areas: (1) extend the domain of trigonometric functions using the unit circle and use that to extend work with complex numbers; (2) expand understanding of logarithms and exponential functions; (3) use characteristics of polynomial and rational functions to sketch graphs of those functions; and (4) perform operations with vectors. Students will be prepared to move on to either Calculus Honors, AP Calculus (by recommendation), or Probability and Statistics.</p>		

241	Probability and Statistics Honors	Full Year
240	Probability and Statistics College Prep	Full Year
<p>This course uses a standards-based approach to the study of statistics and probability. Topics include Interpreting Categorical and Quantitative Data, Making Inferences and Justifying Conclusions, Conditional Probability and the Rules of Probability, and Using Probability to Make Decisions. Decisions or predictions are often based on data—numbers in context. These decisions or predictions would be easy if the data always sent a clear message, but the message is often obscured by variability. Statistics provides tools for describing variability in data and for making informed decisions that take it into account. Statistical applications will be used. Connections to real world and cross-curricular applications will be made.</p>		

250	College Algebra Honors	Full Year
257	College Algebra College Prep	Full Year
<p>College Algebra explores the topics of Algebra 2 and Geometry more deeply with additional complexity of algebraic calculations and problem solving. The topics in this course include Real Numbers, Polynomials, and Complex numbers, Functions, Congruence, Similarity, Circles and Trigonometry. This course is for students who have completed Algebra I, Geometry, and Algebra II.</p>		

243	Calculus Honors	Full Year
<p>This course is for students who have successfully completed Precalculus. The course will include a brief review of the critical concepts and skills covered in Precalculus followed by the concepts of limit, derivative, and definite and indefinite integral. Techniques of numerical and closed form integration with applications of the definite and indefinite integrals will be studied.</p>		

244	Advanced Placement Calculus AB	Full Year
<p>Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are important. The course is intended to be challenging and demanding. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

Science

The following courses will count toward the Lawrence High School Graduation Requirements for Science

311	Biology Honors	Full Year
310	Biology College Prep	Full Year

This course addresses the MA Science and Technology/Engineering Curriculum Framework for Biology. This course teaches students to identify the common characteristics of all living organisms, basic principles of heredity and evolution, and the interdependent nature of ecosystems. During the first semester of this course, the structure and function of living things will be examined from cellular organization to metabolism, growth, reproduction, and response to environmental conditions. Throughout the second semester, students will apply the content and skills previously learned to the study of genetics, ecology, evolution, and the anatomy and physiology of the human body. Labs, dissections and research projects will be an integral part of this course.

314	Environmental Science College Prep	Full Year
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The major theme for this course is the study of living organisms and their interactions with humans and the environment. In this course, cities are investigated as an “urban ecosystem.” This course will focus on six main themes: (1) the physical structure and functions of the Earth, (2) the ecological significance of organisms, (3) the historical impact humans have had on the Earth, (4) Environmental Ethics and Policy, (5) Conservation of our natural resources and biodiversity, and (6) how all of these factors play a role in decisions made in urban and community development.

326	Advanced Placement Biology	Full Year
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The AP Biology course is designed to enable students to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses—a goal of every AP course. All students participating in this course are required to take the AP exam at the time it is offered.

330	Chemistry Honors	Full Year
333	Chemistry College Prep	Full Year

This course addresses the MA Science and Technology/Engineering Curriculum Framework for Chemistry. In this class, students will study basic concepts and skills associated with chemistry. The course content is designed to help students connect theory to practical, everyday life. Students will apply scientific inquiry skills to topics of study including: properties of matter; atomic structure and nuclear chemistry; the periodic table; chemical bonding and reactions; states of matter; and solutions, reactions and equilibrium.

335	Advanced Placement Chemistry	Full Year
<p>This course is designed to be the equivalent of the general chemistry course usually taken during the freshman year of college. For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

343	Physics College Prep	Full Year
<p>This course addresses the MA Science and Technology/Engineering Curriculum Framework for Physics. This is an inquiry-oriented course which combines both quantitative and qualitative approaches to learning physics. The major themes explored in this course are: motion in one and two dimensions including rotational dynamics, energy, electromagnetism, thermodynamics, fluid dynamics, waves, and optics. Mathematical skills learned in pre-calculus are employed in problem solving concepts covered. Students will investigate physical phenomena and theoretical models through lab experiments, problem-solving skills, lectures, discussions and performance tasks.</p>		

344H	Physics Honors	Full Year
<p>This course addresses the MA Science and Technology/Engineering Curriculum Framework for Physics. Physics Honors is an inquiry-centered course which combines both conceptual and basic mathematical approaches to learning physics. The major themes explored in this course are: force and motion, matter and energy, electricity and magnetism, heat, waves, and optics. Conceptual understanding of physical phenomena is emphasized through experiments, real-life applications, performance tasks, lectures, discussions, and note-taking strategies. Students will also learn a step-by-step approach to solve problems in physics and use algebraic equations</p>		

360	Advanced Placement Physics	Full Year
<p>This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry, but rarely calculus. In most colleges, this is a one-year terminal course including a laboratory component and is not the usual preparation for more advanced physics and engineering courses. This course covers Newtonian work, energy, and power; and mechanical waves and sound. It will also introduce electrical circuits. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

364	Introduction to Engineering Design College Prep	Full Year
<p>Introduction to Engineering Design (IED) is a high school level foundation course in Engineering. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Prerequisite: Students must successfully complete Physics.</p>		

327	Anatomy and Physiology College Prep	Full Year
366	Anatomy and Physiology Honors	Full Year
<p>This course will give students an in-depth knowledge of the structure and function of all of the systems of the human body. Furthermore, students will study how lifestyle, genetics, and the environment can influence the performance of body system function. Students will perform experiments and apply their knowledge to explain physiological changes that occur when a person experiences forms of chronic and infectious disease. Honors Prerequisite: B or better in previous honors level science course.</p>		

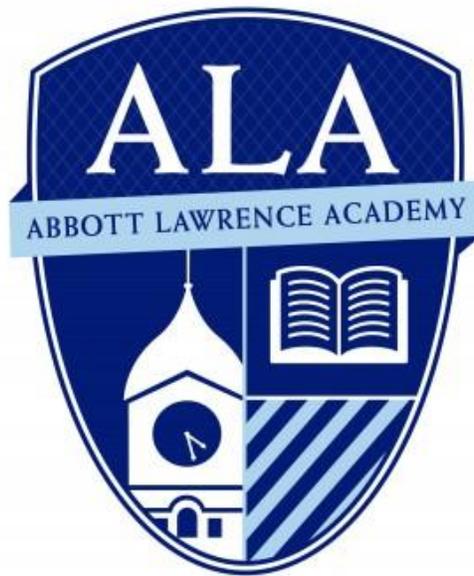
340	Forensic Science College Prep	Full Year
<p>Forensic science is an inquiry-based course that uses applied science in civil and criminal cases. The course includes the applications of concepts from the areas of biology, chemistry, physics, earth science, mathematics, and psychology to analyze and investigate evidence that may be discovered in criminal investigations. The application of the scientific method is central to this course – observation, collection and classification of data, examining relationships, forming and testing hypotheses and making conclusions based on evidence. Students will use scientific techniques and technology in order to solve forensic investigations. Research, case studies, mock crime scenes and career exploration are also components of this course.</p>		

World Languages

It is strongly recommended that students take two or more years of [World Language](#)

431	Spanish I College Prep	Full Year
<p>The Spanish I course introduces students to the Spanish language using the four basic skills sequence: listening, speaking, reading and writing. Structured writing and reading activities have been created to reinforce all of these skills. Students are assessed in a variety of ways with the focus upon performance assessment. All components are integrated and focus on developing effective communication skills in the Spanish language.</p>		
432	Spanish II College Prep	Full Year
<p>Students in Spanish II will build on the skills and learning that they engaged in during Spanish I, with an expansion of the four skills of listening, speaking, reading and writing. The mastery of new vocabulary is a continuous goal in Spanish II. More complex and complete grammatical concepts are taught, and students are further encouraged to write and read in Spanish.</p>		
433	Spanish III College Prep	Full Year
<p>Students in Spanish III will build on the skills and learning that they engaged in during Spanish II, with an expansion of the four skills of listening, speaking, reading and writing. The mastery of new vocabulary is a continuous goal in Spanish III. More complex and complete grammatical concepts are taught, and students are further encouraged to write and read in Spanish. Literature will include fiction, biography, drama, essay and poetry.</p>		
434	Spanish IV College Prep	Full Year
<p>Spanish IV provides students the opportunity to further develop, improve and refine their listening, speaking, reading and writing skills. Emphasis continues to be placed on aural skills with additional emphasis on reading and writing in the target language. Supplementary materials are implemented to enhance language use. Students experience multiple opportunities to demonstrate their proficiency in Spanish in different contexts. Aspects of contemporary Hispanic culture are emphasized through cultural readings, media, games, and class discussions. The goal of Spanish IV is to engage students in conversation in the target language. Various everyday situations will be used to help the student express his/her opinion, ideas, and values while increasing his/her knowledge and use of the vocabulary. Increased time will be spent with Spanish literature and culture.</p>		
438A/B	Advanced Placement Spanish Language	Full Year
<p>The AP Spanish Language course will help prepare students to demonstrate their level of Spanish proficiency across three communicative modes of interpersonal communication, interpretive communication, and presentational communication, and the five goal areas outlined in the Standards for Foreign Language Learning in the 21st Century: Communication, Cultures, Connections, Comparisons, and Communities. The course is meant to be comparable to third year college and university courses that focus on speaking and writing in the target language at an advanced level. All students participating in this course are required to take the AP exam at the time it is offered.</p>		

Abbott Lawrence Academy



Abbott Lawrence Academy is a grade 9-12 admissions based exam school program (a selective public high school program that aims to meet the needs of academically talented students) contained within the Lawrence High School Campus. The environment is competitive, yet supportive, offering a significantly advanced overall course of study including college-level work.

The mission of Abbott Lawrence Academy is to provide a high quality, rigorous, college preparatory education for each student in a safe and nurturing learning environment that values hard work, determination and citizenship.

[ALA Admission Requirements](#)

All students must apply for admission to Abbott Lawrence Academy

The application process includes:

- The ISEE (Independent School Entrance Exam)
- A completed student application that includes all short answer and essay components
- Transcript and attendance records from grades 6-8
- STEM and Humanities teacher recommendations

All information and deadlines regarding applications as well as information about registering for the ISEE can be found by going to the “[Admissions](#)” Section of the Abbott Lawrence Academy Homepage.

[ALA Graduation Requirements](#)

Content Area	ALA Graduation Requirements	MASS CORE Recommendations
English	4 years	4 years
Mathematics	4 years	4 years
Science	3 years	3 lab-based years
History/Social Studies	3 years	3 years
Fine Arts	2 years	1 year
World Languages	3 years	2 years
Health	1 semester	
Physical Education	2 semesters	

[Courses offered at Abbott Lawrence Academy](#)

Courses offered at ALA are at the advanced honors, pre-AP, or AP level. Students also have dual enrollment opportunities with local colleges.

For more information about specific courses offered, course descriptions and other academic related information visit the [ALA Curriculum and Academics](#) page.

Lawrence High School Specialized Courses



English As a Second Language



English as a Second Language

The mission of the Lawrence Public School’s program for English Learners is to provide quality instruction to ELs so they can acquire English language proficiency while having access to the core content by:

- Ensuring that instruction is scaffolded, modeled and differentiated.
- Promoting a culturally responsive classroom environment to facilitate learning and comfort.
- Enabling ELs to compete with their peers to attain college and career readiness standards.
- Providing systematic, explicit, and sustained instruction of [English language and literacy](#).



051 A/B	ESL 1	Full Year
<p>This course is for Entering English proficiency language learners who have beginning English language skills. Students will practice and develop competency in social and academic language across the four language domains of listening, speaking, reading, and writing. Language functions and forms are learned through themed full class, small group, and accountable pair interactions/tasks and academic writing in response to reading authentic and adapted text. Students enrolled in this course will receive two periods a day of ESL instruction.</p>		
061	ESL 2	Full Year
<p>This course is for Emerging English proficiency language learners who have functional English language skills. Students will practice and develop competency in social and academic language across the four language domains of listening, speaking, reading, and writing. Language functions and forms are learned through themed full class, small group, and accountable pair interactions/tasks and academic writing in response to reading authentic and adapted text. Students enrolled in this course will receive two periods a day of ESL instruction.</p>		
071	ESL 3	Full Year
<p>This course is for Developing English proficiency language learners who have transitional English language skills. Students will practice and develop competency in social and academic language across the four language domains of listening, speaking, reading, and writing. Language functions and forms of increasing complexity are learned through themed full class, small group, and accountable pair interactions/tasks and academic writing in response to reading authentic text. Students enrolled in this course will receive one period a day of ESL instruction.</p>		
082	ESL Intervention	Full Year
<p>This course is for Expanding and Bridging English proficiency language learners who have transitional English language skills verging on near-native speaker capability. Students will practice and develop competency in social and academic language across the four language domains of listening, speaking, reading, and writing. Complex language functions and forms are learned through themed full class, small group, and accountable pair interactions/tasks and academic writing in response to reading authentic complex text. Students enrolled in this course will receive one period a day of ESL instruction.</p>		

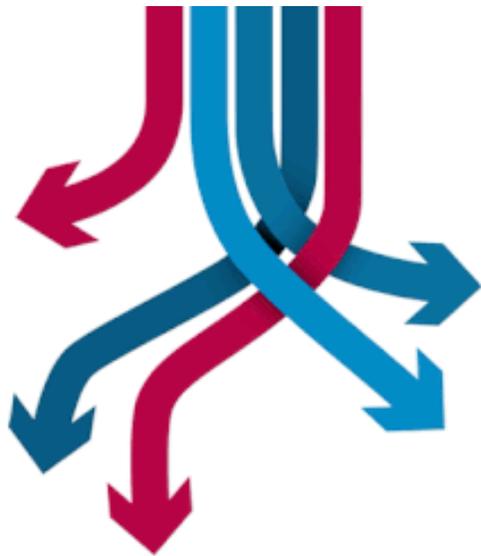
JROTC Leadership, Education and Training

JROTC is designed for those students who want to learn about citizenship and leadership with the program’s focus reflected by the mission statement, ‘To motivate young people to be better citizens.’ It is designed to teach high school students the value of citizenship, leadership, service to the community, service learning, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork, and self-discipline. *Wearing of a military uniform once a week is a requirement of this course.*



991	JROTC Leadership, Education and Training Year 1	Full Year
<p>This is a full year introductory course designed to teach high school students the value of citizenship, leadership, service to the community, service learning, personal responsibility, and a sense of accomplishment, while instilling self-esteem, teamwork, and self-discipline. <i>Wearing of a military uniform once a week is a requirement of this course.</i></p>		
992	JROTC Leadership, Education and Training Year 2	Full Year
<p>This is a full year course in which the main principle is to understand the importance of physical readiness, endurance, and physical training (cardiovascular and muscular development). <i>Wearing of a military uniform once a week is a requirement of this course.</i> Successful completion of JROTC 1 is required for this course.</p>		
993	JROTC Leadership, Education and Training Year 3	Full Year
<p>This course is a practicum of oral communications, written communication in the Army format, leadership, physical fitness, first aid, health concepts and skills, military history and American citizenship and development of presentation techniques for small group instruction. <i>Wearing of a military uniform once a week is a requirement of this course.</i> Successful completion of JROTC 2 is required for this course.</p>		
994	JROTC Leadership, Education and Training Year 4	Full Year
<p>The main principle of this course is to fine-tune advanced techniques of communication to include classroom presentations, leadership, and physical training techniques with emphasis on physical readiness and fitness, first aid, military history and American citizenship. <i>Wearing of a military uniform once a week is a requirement of this course.</i></p>		

Lawrence High School Pathways Courses



Lawrence High School College and Career Development Personalized Pathways

The Lawrence High School Personalized Pathway Model is anchored in five domains that allow students flexibility within a semi-structured articulation of courses as part of their high school experience. Within each of the pathways, students have choices to take courses exclusively in each pathway or take a combination of classes across pathways.

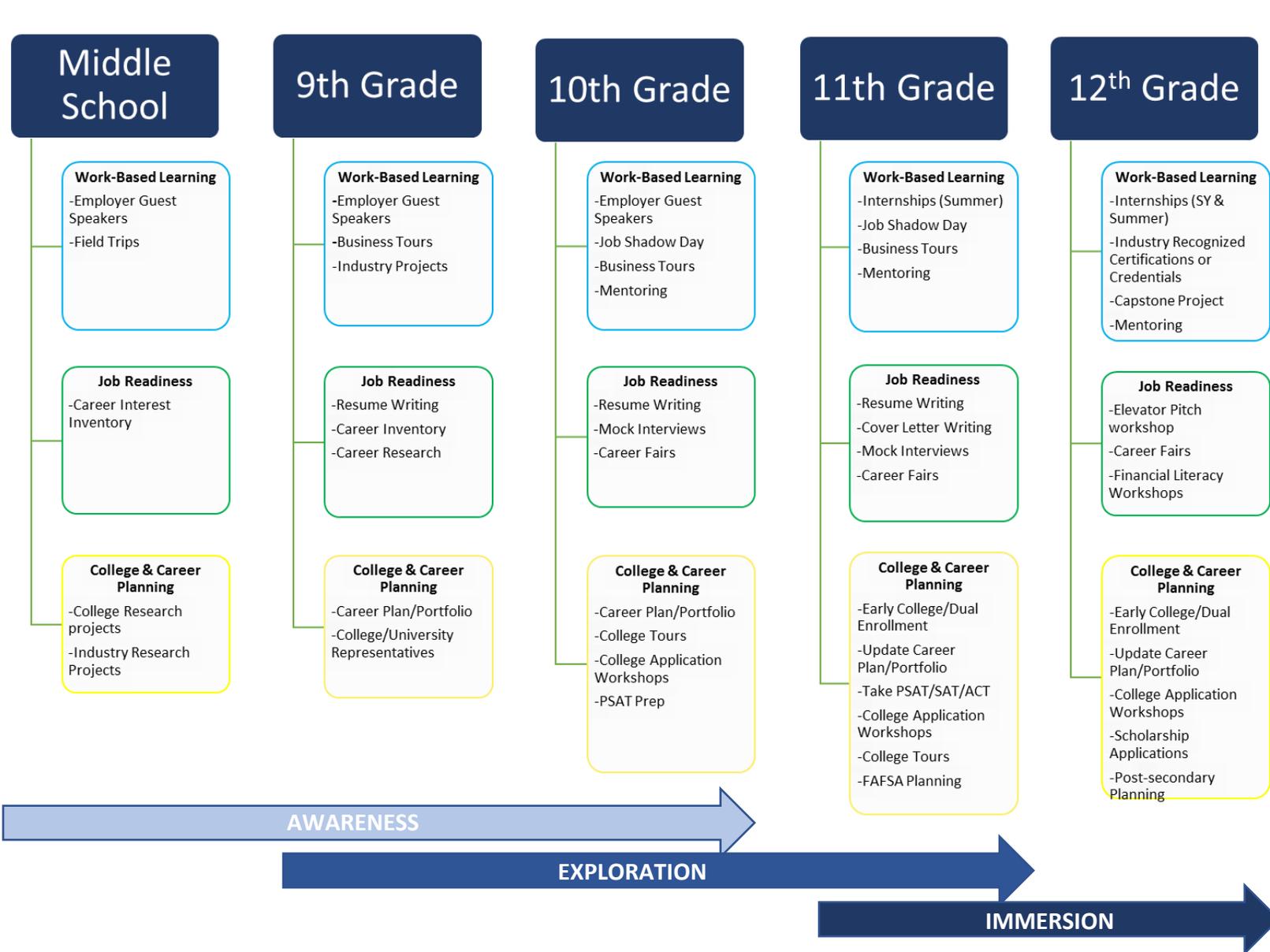
Business, Entrepreneurship & Finance
Health and Wellness
Performing and Fine Arts
Public Service and Administration
Tools and Tech



These college and career pathways will allow students to enjoy student-centered learning experiences that lead to developing personalized post-graduation plans for success. In addition to the opportunities students will have to explore college and career pathways in the classroom, there are multiple experiences in the community.

Per our conceptual model below, we are building a broad and deep infrastructure of employer and student experiences that provide a diverse scaffold of opportunities for engagement as we ease both students and employers into the process with small, incremental steps leading to the culmination of a rigorous internship.

LAWRENCE HIGH SCHOOL-COLLEGE & CAREER DEVELOPMENT CONTINUUM



Business, Entrepreneurship and Finance Pathway



Lawrence High School offers the following elective courses related to the fields of [Business, Entrepreneurship, and Finance](#)

529	Accounting I	Full Year
<p>This course is designed to teach students the fundamentals of accounting. Students will build on basic math skills while learning overall accounting concepts and principles. This course is designed to help students learn how accounting relates to different careers, learn accounting terminology, and apply accounting procedures.</p>		

150	Business Law	Semester
<p>This course is the introduction to business law with an emphasis on introductory principles followed by an analysis of the legal system (courts system, criminal law, tort law and ethics & responsibility). The unit segments which follow will include a detailed analysis of five (5) subject matter areas: 1) <i>law of contracts</i>; 2) <i>commercial & consumer law</i>; 3) <i>agency & employee law</i>; 4) “<i>doing business</i>”, i.e., choice of business entity and government regulation of business; and, 5) <i>personal law</i>, i.e., ‘minors and the law’, personal property, real property, landlords & tenants, insurance and estates.</p>		

165	Economics	Semester
<p>This course examines the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. Key elements include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade.</p>		

535	Financial Management	Semester
<p>Students will learn concepts to successfully manage their personal, current, and future expenses. Topics to be covered: careers, salary and benefits on the job, taxes, budgets, banking, investments, real estate, retirement, credit issues, renting vs. owning property, buying a vehicle, insurance, and other financial related issues.</p>		

515	Introduction to Business	Semester
<p>Students in this course will be able to understand business, use technology to gather information, and solve problems in innovative ways.</p>		

536	Introduction to Entrepreneurship	Full Year
<p>Students will learn how to start and operate a small business. Students will have an opportunity to become part of the National Foundation for Teaching Entrepreneurship.</p>		

518	Marketing	Semester
<p>This course is designed to provide a foundation in the principles of marketing, marketing functions, and marketing math. This course will help students understand the role marketing plays in business as well as the roles business plays in meeting customer needs and wants.</p>		

271	Real Estate	Semester
<p>Students will learn the basics of Massachusetts real estate law. The course will promote attainment of a solid understanding, background, and grasp of terminology necessary for advanced study in specialized courses. Topics include: deeds, titles, agency, contracts, finance, appraisal, escrow, and leases.</p>		

Health and Wellness Pathway



Lawrence High School offers the following elective courses related to the fields of [Health and Wellness](#)

864	Brazilian Jiu Jitsu	Semester
<p>Students will learn the basics of Brazilian Jiu Jitsu. This class will focus and promote the concept that a smaller, weaker person can successfully defend against a bigger, stronger, heavier opponent by using proper technique and leverage. Students will learn how to work together as a team as well as developing themselves as individuals. Students build self-esteem and self-discipline while improving their strength, balance, and flexibility.</p>		

868	CNA (Certified Nurse Assistant/Certified Nurse Aid)	Full Year
<p>Students will learn fundamental nursing assistant skills and information and be prepared to take the MA examination to become a CNA. Emphasis is placed upon communication, safety and infection control procedures and basic personal care skills for patients/residents in sub-acute, long term care and in an individual's home. Other topics include vital signs, documentation and the legal and regulatory practices. 120 Hours plus practical field work.</p>		

865	CPR/First Aid Certification Course	Semester
<p>The purpose of this CPR course is to help participants recognize and respond appropriately to cardiac, breathing and first aid emergencies. The CPR course helps to prepare participants to make appropriate decisions in an emergency. Participants learn how to perform adult, child and infant CPR, how to use an Automated External Defibrillator (AED), how to help someone who is choking and how to care for a variety of first aid emergencies such as burns and severe bleeding. This program also emphasizes prevention of injuries and illness, with a focus on personal safety and health. At the end of this course, students will be officially certified in First Aid/ CPR/AED through the American Red Cross.</p>		

859X	CrossFit Level 1: Introductory CrossFit class to build the foundation	Semester
<p>In CrossFit 1, students will come to understand what defines CrossFit as a physical fitness methodology and how fitness itself is defined. Students will be introduced to the foundational movements of CrossFit, as well as the Olympic weightlifting techniques, which will develop spatial awareness and build strength. In addition, students will learn basic gymnastic skills to improve body awareness. Students will also develop a strong foundation of recovery methods, such as improving one's diet, learning the importance of proper sleep, and regularly practicing techniques to improve mobility. Lastly, students will monitor progress through journal keeping, and learn the specific language of CrossFit, which includes a variety of physiological processes and numerous acronyms which define how *WODs (Workout of the day) are structured. This course will culminate with a campus wide CrossFit competition and all level one students are expected to participate.</p>		

859Y	CrossFit Level 2: Intermediate CrossFit class to expand on the foundational base and build new skills	Semester
<p>In this course, students will continue towards the Mastery of the definition of CrossFit and fitness while also perfecting the 9 foundational movements. Intensity and volume of all movements including Olympic lifts will be increased. Students will be introduced to advanced gymnastics skills - handstand pushups, handstand walking, chest to bar pull ups, muscle ups. The role of nutrition in health, fitness, and athletic performance will be discussed by students on a daily basis. Technology will be used for further developing goal-setting skills, WOD tracking, and nutritional tracking. This course will culminate with a campus wide CrossFit competition and all level 2 students are expected to participate.</p>		

859Z	CrossFit Level 3: Advanced CrossFit class to master new skills, further develop strength, and prepare students for the CrossFit Level 1 trainer certificate course.	Semester
<p>In this course, students will learn about virtuosity in all nine CrossFit foundational movements. The main goal is for students to be able to perform these movements with technical mastery, and to explain the mechanics behind them to their peers. Additionally, students will have mastery of the Olympic lifting movements. Students will be able to perform the snatch and clean and jerk during WODs under high intensity. CrossFit Level 3 students will have mastery of the advanced gymnastics movements and will be able to perform high-level gymnastics movements during high-intensity workouts. Students will have an introduction to the Strongman movements, as well as a main focus on the CrossFit Level 1 Trainer handbook. Students will focus and prepare for the Level 1 Trainer test (practice test to be administered). CrossFit Level 3 WODs will vary from Level 2 with an increased loading and/or rep scheme. Students will further develop their goal setting skills, WOD tracking, and nutritional tracking with a phone app. CrossFit Level 3 students will serve as peer-mentors and assistant coaches for Level 1 and Level 2 students. This course will culminate with a campus wide CrossFit competition and all level 3 students are expected to participate.</p>		

381	Health	Semester
<p>This semester course is divided into sections that concern everyone's health. Students will consider the decisions one must make for a more healthful lifestyle through units on self-esteem, decision-making, values and behavior. Nutrition, fitness, illegal drugs, alcohol, family living and sex education will also be covered. This course is required for graduation.</p>		

153	Introduction to Psychology	Semester
<p>This course provides an introduction to the study of how people behave and function. Through class discussion, audio-visual presentations, group work, case studies, readings from psychological literature, and lectures, students develop a solid foundation in the basic theories and principles of psychology. The course explores the history of the discipline and its research methods, the social and cultural dimensions of behavior, and the more common psychological disorders and treatment. Topics covered include: physiology of the brain, memory, learning, language, perception, lifespan changes, normality and abnormality, social interactions, group influence on individuals, and therapies.</p>		

179	Introduction to Sociology	Semester
<p>Introduction to Sociology communicates to students the excitement and importance of the study of the social world. It is designed to provoke interest and enthusiasm for the study of sociology. This course deals with the social atmosphere that helps to make us who we are and how we behave. Sociology will cover topics such as culture, violence, deviance, social control, socialization and personality, group behavior, social class, and social institutions. The key component of this course is to study ourselves and the society that influences our behavior.</p>		

853	Physical Education	Semester
<p>This course is geared to cardiovascular and muscular fitness, flexibility, coordination, locomotion, and skill instruction in individual and team sports. Activities include aerobics, badminton, basketball, floor hockey, football, jogging, soccer, softball, volleyball, weight training, and recreational games. This course is open to all students who need to meet their physical education graduation requirements.</p>		

856	Prevention and Care of Injuries	Semester
<p>This course is designed for students who are interested in first aid, training athletes and physical therapy. Students will participate in hands on learning experiences pertaining to the care and prevention of injuries.</p>		

867	Women's Fitness	Semester
<p>This physical fitness course is designed to give the female student an opportunity to develop a physical fitness program as well as develop and encourage positive attitudes and habits with regard to cardiovascular efficiency, body composition, muscular strength, endurance, and flexibility. Students will participate in a variety of cardiovascular activities, such as Zumba, Steps, Body Bar and Mini Boot camp sessions. During the course of the semester students will work on short and long term personal goals to fit their individual needs.</p>		

878	Yoga/Wellness	Semester
<p>Yoga/Wellness is a health class designed to meet students' physical, social, and emotional needs through instruction and experiential learning on topics related to wellness such as responsible and healthy-decision making and stress management. Students will apply these skills in activities such as yoga, mindfulness, and team sports.</p>		

Performing and Fine Arts Pathway



Lawrence High School offers the following elective courses related to the fields of [Performing and Fine Arts](#)

742	Advanced Placement Studio Art	Full Year
<p>This is a full year course providing guidance in the preparation of artwork that will fulfill the requirements for the Advanced Placement Studio Art portfolio. This portfolio is intended to address a broad interpretation of issues in studio art and 2-D design. Students must have completed a minimum of one year of 2-D Art classes (Introduction to Drawing Introduction to Color, or Introduction to Photography, Intermediate Photography) with a grade of B+ (85%) or better in each class. Although the instructor guides students, there is a great deal of individual initiative required by the student. Students who receive a grade of 3 or better on their portfolio, from the College Board will receive college credit for this class. This class meets the Fine Arts graduation requirement and the undergraduate requirement of most colleges.</p>		
831	Ballet I	Full Year
<p>This course will cover techniques and terminology of ballet, with an emphasis on execution of movement, musicality and readings in ballet history.</p>		
832	Ballet II	Full Year
<p>This course will expand upon Ballet Techniques I with increasing complexity in technical presentations. Emphasis on execution of movement, musicality and readings in ballet history and famous classical dancers and choreographers.</p>		
731	Ceramics	Semester
<p>This course introduces students to 3-dimensional design using clay. Through forming, glazing and firing students learn to manipulate clay successfully. Stress is placed on hand building through pinch, coil, and slab methods along with an introduction to the potter's wheel.</p>		

808	Concert Band	Full Year
<p>This band is for students who have successfully completed freshman band. Students will be introduced to a wide variety of music for both traditional and multicultural ensembles. Students will be required to perform in a number of concerts throughout the year.</p>		

804	Girls' Ensemble	Full Year
<p>Auditions are held during the 3rd quarter of each school year. Students perform an advanced repertoire of over 40 selections of all different styles and languages, at 20 to 30 concert appearances per school year. Attendance is expected at all performances and rehearsals. Students are required to audition for the New England District Chorus in the fall, and compete in the MICCA Choral Competition in the spring. Prerequisite: By audition only.</p>		

805	Gospel Choir	Full Year
<p>Gospel Choir will explore contemporary music from various cultures, with an emphasis on African American musical traditions. Students will explore vocal production and performance concepts which include call-and-response singing, rote-to-note singing, and choral riser movement. There will be an emphasis on the historical significance of our repertoire. Students will be evaluated on attendance at rehearsal and performances, and sung and written exams. Students are expected to attend all after school rehearsals and performances to earn a passing grade. Prerequisite: Grades 11 & 12 only, Concert Choir II or Girls' Ensemble.</p>		

807	Grade 9 Band	Semester
<p>This course is for students who have completed the arts survey course and are interested in participating in the instrumental music program. The band will allow for students with various levels of ability to develop their instrumental music skills. Students will participate in one concert in the spring semester.</p>		

811	Guitar	Semester
<p>Students will learn the skills of reading music, playing songs, and proper hand positioning on the guitar.</p>		

825A	Introduction to Acting I	Semester
825B	Introduction to Acting II	Semester
<p>In this course, students are introduced to the fundamental skills and tools required for developing the acting process. They build self-awareness, develop their imagination and concentration, and demonstrate the ability to be honest and committed in their acting. Students learn to interpret the relationship between writer, actor, and director. They learn methods of building an authentic character and develop scenes to present to their peers.</p>		

755	Introduction to Digital Photography	Semester
<p>This course introduces students to the fundamentals of black and white photography. Emphasis is placed on developing students' ability to select from everyday surroundings to produce interesting and meaningful compositions. Students will examine both the aesthetic and technical aspects of the photography process. The use of metering, lighting, composition, and mechanical aspects of the Single Lens Reflex camera will be examined during class to provide students with a basic understanding of the art of photography. Prerequisites: Sophomore, Junior or Senior status.</p>		

711	Introduction to Drawing	Semester
<p>This introductory course is designed for the student to develop basic drawing and observational skills. The media used in this course includes, but is not limited to, pencil, colored pencil, charcoal and pen. Observational skills will be developed from life, as well as photographic resources, in the areas of figure drawing, still life, one and two-perspective, gesture drawing, design composition, elements of design and principles of design.</p>		

995	JROTC Marching Band	Full Year
<p>This class is performance based band offering open to any JROTC student interested in playing drums, cymbals, auxiliary percussion, and xylophone. The students will be taught the fundamentals of proper playing, hand position, and rudiments, as well as reading music.</p>		

835	Modern Dance	Semester
<p>Students will develop an understanding of modern dance technique and terminology. During this course students will learn theory and practice as well as an appreciation of the art of contemporary dance and its history.</p>		

664	Mural Painting	Semester
<p>This course introduces mural painting as a means to create positive change in communities. Students will learn the multiple stages of development that are necessary to complete a large mural, from the development of themes, through sketching of ideas, to sketch transfer and execution of the finished product.</p>		

734	Painting	Semester
<p>This class is an introduction to painting using still-life and portraiture as a basis for the study of light, color and form. Students will learn about the tools, techniques and process that a painting requires, as well as experimenting with different styles of painting. The course will serve as a basic introduction to art history as students will learn techniques by observing the work of great painters. Students must take this course as a prerequisite for other advanced painting classes.</p>		

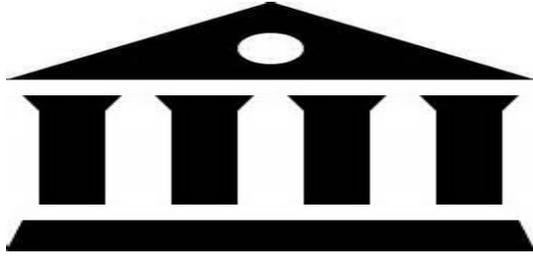
812	Piano Class	Semester
<p>This course is for students who are interested in learning how to play the piano. Students will learn the basic skills necessary to read and perform music.</p>		

846	Stage Design	Semester
<p>Stage Design is a hands-on approach to the building and design process of theater. Students will work hands on in our scene shop and Performing Arts Center to develop skills involved in theater construction, lighting, sound, painting and additional theater technologies.</p>		

841	Television Production	Semester
<p>This course will introduce students to studio and field video production techniques. Students will develop the basic skills needed to independently produce interviews, news, sports and other event programs. Students will produce programs for audiences at Lawrence High School and in the community on the Lawrence Public Schools Educational Cable Access Channel 10.</p>		

766	Theater Production	Semester
<p>Theater production is an introductory course to theater. Students will be introduced to the performance side of theater through acting, improvisation and musical theater. Students will help to produce a show developing skills rooted in technical theater such as design, construction and scenic painting.</p>		

Public Service and Administration Pathway



Lawrence High School offers the following elective courses related to the fields of [Public Service and Administration](#)

039	Creative Writing	Semester
<p>Creative writing is designed to aid students in their written expression and delivery of a variety of creative forms, including poetry, drama and the short story. Students will read and discuss articles on the craft of writing and read and evaluate the effectiveness of fiction of varying styles to use as models for their own writing. Through workshops and peer editing, students will complete a final portfolio.</p>		
273	Critical Issues in Education	Full Year
<p>This year-long course is designed to familiarize students with critical issues in American public K-12 education and to develop skills in critical reading, writing, speaking, listening and research. The course consists of four units: Philosophy, History, Equity and Justice, Current Issues. All students will complete and present a research project on one significant issue in contemporary K-12 education.</p>		
175	Current Events	Semester
<p>The Current Events course will ask students to explore issues that affect the world around them. This course will integrate literature, law, political science, geography, politics, and technology. Students will learn problem solving skills in the context of current domestic and world affairs.</p>		
191	The History of Lawrence	Semester
<p>The History of Lawrence course will examine the city of Lawrence from both the perspective of the students in the course as well as through a historical lens. Students will investigate historical figures, events, arts and culture, demographics, urban geography and the sociology/anthropology of the city. This semester-long course will have students creating a place-based research project in the first quarter, examining their home and neighborhood in present day and comparing it to its use 25, 50 and 100 years ago. Students will also learn about immigration and its impact on the city, the history of the city's industry and workers, as well as its arts and culture. As a course-long capstone students will use primary sources to create a living history of Lawrence through digital media. <i>Prerequisites: Successful completion of US History I & II.</i></p>		

977	Independent Research	Semester
<p>Students will formulate an original research question to be investigated throughout the course. Students will learn about and use the Research Process to identify and analyze the best sources of information in order to collect data, formulate ideas and create a hypothesis to answer their individual research question. Students will learn information literacy skills such as evaluating sources and will learn about various digital sources of information such as online databases, best research practices, and how to turn information into an original, well researched final project. (Final projects will consist of a written research paper coupled with other mediums such as graphs, videos, artwork, etc.)</p>		
662	Internship in the Community	Semester
<p>Students complete community service projects in the Lawrence area and learn how volunteerism can help a person learn about themselves. Students have the ability to choose from a variety of placements according to their interests and needs.</p>		
152	Introduction to Criminal Justice	Semester
<p>The Introduction to Criminal Justice course will introduce students to the three main institutions that make up the criminal justice system in America. Students will examine the inner workings of police departments, court systems, and correctional facilities. Students will study the origins of each, as well as the role that they serve in a civilized and "free" society. Major concepts and theories will be explored in addition to the daily operations of each institution. In addition, students will focus on careers within the criminal justice system. Students can expect a combination of theory, and active hands-on learning in this course.</p>		
665	Peer Mentoring	Semester
<p>This course is a semester-long, peer-facilitated program that helps orient and connect freshmen to high school while promoting positive changes in the school culture. The ultimate goal of the LHS Mentoring Program is to help all students build academic and social/emotional competencies and a sense of community necessary for a safe and productive high school environment and experience.</p>		
181	U. S. Government Survey	Full Year
<p>This course provides a framework for understanding the purposes, principles, and practices of American government as established by the United States Constitution, including: ideas regarding the nature of government and civic life, and how these ideas have influenced contemporary political and legal systems; ideas at the core of government and politics in the United States which constitute a common American history and civic identity; how institutions of government for the American people are established in the United States Constitution; and the ideas, roles, rights, and responsibilities of citizenship in the United States.</p>		

008	Writing Lab	Semester
<p>This is an elective class open to juniors and seniors with a strong interest in writing and helping others. Students will read and write widely across a range of genres, developing their own abilities as writers, speakers, thinkers and leaders, and will also engage in service-learning projects mentoring younger writers from ages 8-18. Community partnerships with Bread Loaf, the Boys and Girls Club, Elevated Thought, The Addison Gallery of American Art, and other organizations will enrich the course. Readings may include works by Lisa Delpit, Paolo Friere, E.D. Hirsch, Langston Hughes, Natasha Trethewey and others. Writings will include short stories, poetry, reflections, and an educational autobiography. Grading will be based on a writing portfolio, participation in service learning, and participation in structured class discussions. Participants are required to participate in service learning as Writing Leaders for younger students through a community partnership and/or establishing a Lawrence High School Writing Lab. This course may be repeated for credit.</p>		

Tools and Technology Pathway



Lawrence High School offers the following elective courses related to the fields of Tools and Technology

268	CCNA Routing and Switching	Full Year
<p>This course will provide students with a working knowledge of routing, switching, network applications, protocols and services. Students must successfully complete IT Essentials before enrolling in this course.</p>		

630	Coding	Semester
<p>Coding is offered as an elective course which students demonstrate through code the incorporation of an algorithm that addresses the problem at hand, and successfully compiles, executes, and provides a solution to the problem. Students will be able to take a word problem in science and engineering and represent it using appropriate equations and models. They will map these models to computational data structures in the programming language being considered. Grade 9 and 10 ONLY.</p>		

589	Computer Science Essentials	Full Year
<p>Computer Science Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry-standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today.</p>		

256	Core Programming	Semester
<p>This is an advanced programming course for students who want to continue learning the skills and mindsets of college-level computer science. Students will use and implement common algorithms and data structures using C++. The course will also focus on the ethical and social implications of computer use. Students must successfully complete Coding before enrolling in this course.</p>		

269	Cybersecurity Essentials	Semester
<p>This course provides a foundational understanding of cybersecurity and how it relates to information and network security. Students are introduced to characteristics of cyber-crime, security principles, technologies and procedures to defend networks. Students build technical and professional skills to pursue careers in cybersecurity fields. Students must successfully complete Coding or IT Essentials before enrolling in this course.</p>		

974	FUSE	Semester
<p>This course engages students in science, technology, engineering, arts/design, and mathematics (STEAM) topics while fostering the development of important 21st century skills. Students engage in a set of challenges in areas such as robotics, electronics, biotechnology, graphic design, android app development, 3-D printing and more.</p>		

587	IT Essentials	Full Year
<p>This course provides students with the skills and knowledge of personal computers; safe lab procedures and tool use; preventive maintenance and troubleshooting of computers and components; fundamentals of computer operating systems, laptops, portable devices, and networks.</p>		

585	Robotics	Semester
<p>Students will learn about programming, electronics, metalworking and mechanical design. Students learn to strategize, learn new technology, collaborate and build skills they need to enter any career path.</p>		

588	Web Development	Semester
<p>This course is an introduction to creating web pages for computers and mobile devices. Students will learn to use HTML to create and format web pages. Additionally, students will use CSS and JavaScript to achieve the level of design and functionality expected in professional web development. Students will learn the skills and mindsets key to success in the field, and the digital ethics and literacy important to all web users. Students must successfully complete Coding or IT Essentials before enrolling in this course.</p>		

Preparation for College and Careers



Preparing all students for college and careers starts with a strong transition to high school. Students take the following courses in the lower school providing the necessary skills and preparation to be a successful student at Lawrence High School.

016	Literacy Workshop Grade 9	Full Year
<p>Literacy Workshop empowers students to maximize their literacy skills, including but not limited to vocabulary skills, reading skills, and writing skills. Students practice reading, summarizing, and interpreting texts across a wide variety of genres. They also practice writing across genres. We conclude the year with rhetorical analysis and digital media literacy. Throughout the course, we both achieve and celebrate growth in our skills.</p>		
325W	STEM Workshop Grade 9	Full Year
<p>STEM Workshop empowers students to maximize skills related to math and science. It is a multi-faceted interdisciplinary course with a focus on algebra and remedial math skills in the first semester, followed by an intensive focus on biology vocabulary, concepts and testing strategies in the 2nd half of the year. It also supports students in MCAS preparation. In both semesters students practice writing skills with an emphasis on defending claims and rationale for responses.</p>		
999	Seminar Grade 9	Full Year
999	Seminar Grade 10	Full Year
<p>The goal of the seminar course is to help students and teachers develop relationships built on trust and understanding while simultaneously helping the students acclimate to high school and gain a better understanding of the world around them and their place in it.</p>		

**Students take the following courses in the upper school to prepare them for
College and Careers**

950	One Goal Grade 11	Full Year
951	One Goal Grade 12	Full Year

One Goal is a 3 year program that provides high school students with opportunities and resources to explore college as a realistic, attainable, post-high school option. The daily lessons leverage an intensive college awareness curriculum and emphasize building academic behaviors of successful students. One Goal starts as a credit-bearing class during students' junior and senior year of high school. Then, when students enter college, Program Directors bridge the transition from high school to college by providing one-on-one intensive coaching remotely through the first day of sophomore year of college.

955	Seminar Grade 11	Full Year
955	Seminar Grade 12	Full Year

Grade 11 & 12 Seminar meets for 30 minutes per day in small groups. The goals are to directly teach the LHS Social and Civic expectations; ensure readiness for college, career, and civic life; provide social and emotional support; connect students with the school more effectively; Prepare students for standardized tests (SAT, PSAT); and academic monitoring.

Lawrence High School seniors recognized for participation in the Early College Program at NECC.

