



Grade 11 Academic Courses 2021-2022

English Options:

- **English 11 (CP, ACP, H)**
- **A.P. English Language and Composition**

PENDING - Early College (in partnership with North Shore Community College):

- *Speech*
- *Composition 101*

Math Options:

- **Algebra II (CP, ACP, H)**
- **Pre-Calculus (H)**

History Options:

- **United States History II (CP, ACP, H)**
- **A.P. United States History**

Lab-Based Science Options:

- **Chemistry (CP, ACP, H)**
- **Physics (CP, ACP, H)**

BOLD denotes required content course.

**Term length is semester based*



English 11

Course #: 1302, 1301, 1300

Level: Honors, ACP, CP

This course examines American literature through fiction, nonfiction, poetry and drama from multiple perspectives based on the learning standards of the *Massachusetts Curriculum Frameworks for English Language Arts and Literacy* (2017). Students will analyze texts through stylistic, social, economic, historical, and critical lenses. The emphasis of this course is evaluating the relationship between form and content in a literary work, and then analyzing how both the author's intent and reader's perspective illuminate the meaning of the text. Students will produce short narratives, dramatic scenes, oral presentations, and analytical essays. All students will participate in quarterly common assessments. **Credits: 4**

Advanced Placement English Language & Composition

Course #: 1303

Level: AP

In the A.P. English Language and Composition course—the rhetoric course—students learn how to analyze, synthesize, and evaluate nonfiction texts, including essays, biographies and autobiographies, speeches, sermons, and passages from writings in the arts, history, social science, politics, science, and other areas of study. Students learn to evaluate and construct arguments drawn from articles in newspapers, magazines, and online “zines” and “blogs.” The course cannot help but be interdisciplinary, immersing students in a variety of sources. Students are expected to take the College Board A.P. English Language and Composition Exam in May. College credit may be applied with a score of three or higher on the College Board exam. **Credits: 4**

Algebra II

Course #: 2302, 2301, 2300

Level: Honors, ACP, CP

This course is a continuation of algebraic concepts from Algebra I and continues the Algebra I-Geometry-Algebra II sequence as articulated in the *Massachusetts Mathematics Curriculum Framework* (2017). Topics include functions and graphs and more complex problem solving, complex numbers, matrices to solve linear systems, vectors, analytic trigonometry, and relates the connections between the fundamental concepts of algebra, trigonometry and analytic geometry. Several standards in the Algebra II course were moved to the Enhanced Algebra I course which made it possible to add standards from the Pre-calculus Course to the Enhanced Algebra II course. In this way students will be prepared for Calculus after successful completion of Enhanced Algebra II. This is a course which covers material at a fast pace and in great depth, with the expectation of stronger student performance. A greater emphasis will be placed on algebraic approaches to problem-solving. All students will participate in quarterly common assessments. **Credits: 4**



Pre-Calculus

Course #: 2322

Level: Honors and ACP

Continuing the progression for entering Grade 11 students who successfully completed Algebra II in Grade 10 and based on the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards, this course combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. Because the standards for this course are (+) standards, students selecting this Model Precalculus course should have met the college and career ready standards. Instructional time will focus on four critical areas: (1) 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. All students will participate in quarterly common assessments. **Credits: 4**

United States History II

Course #: 4302, 4301, 4300

Levels: Honors, ACP, CP

This course completes the second part of a sequence of United States history begun in Grade 10, by examining the major events in U.S. history from World War I to the 1960s and is based on the learning standards in the *Massachusetts History and Social Science Curriculum Framework* (2018). Major units include the study of World War I, the Great Depression and the New Deal, the Rise of Dictators, World War II, the Cold War, Civil Rights, the Vietnam War and Social Changes in the 1960s. As in previous years, students will continue to refine their critical reading and analytical writing, source evaluation, use of primary source documents, ability to make claims, evidence, and interpretation, and research methods. Honors students will pursue an accelerated program adding document analysis, debate, and rigorous practice writing supported essays based on synthesizing multiple sources. Please note that the U.S. History II Honors program is a pre-Advanced Placement curriculum that will require regular and significant preparation by reading and writing outside of class. All students will participate in quarterly common assessments. **Credits: 4**

Advanced Placement United States History

Course #: 4303

Level: AP

A.P. United States History is designed to give grade 11 students a thorough understanding of United States History, requiring students to master historical interpretation, critical and analytical thinking, essay writing, and the integration of primary and secondary sources. The class prepares students to assess historical data and documents, evaluate relevance and reliability, and demonstrate historical knowledge of United States History.



This course is equivalent to a full-year introductory college class and, therefore, all students enrolled in this course are expected to demonstrate their content mastery by taking the Advanced Placement exam in May. Please note that summer work is required. **Credits: 4**

Chemistry

Course #: 3302, 3301, 3300

Level: Honors, ACP, CP

This course is designed to teach students the concepts of composition, structure and properties of substances and the changes they will undergo based on the learning standards for Chemistry in the *Massachusetts Science and Technology Engineering Curriculum Framework* (2016). Topics will include the classification of matter, atomic structure, periodic table and chemical formulas, chemical reactions and gas laws. Students will utilize qualitative as well as quantitative approaches to predict outcomes and identify unknowns. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. All students will participate in quarterly common assessments. **Credits: 4**

Physics

Course #: 3312, 3311, 3310

Level: Honors, ACP, CP

This Physics course will introduce key concepts of the physical world including motion, energy, and electromagnetism based on the learning standards for Physics in the *Massachusetts Science and Technology Engineering Curriculum Framework* (2016). Hands on labs will reinforce these concepts. Measurement and problem solving including graphing and critical thinking will be introduced. Technology will be used to analyze data collected in lab activities. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. All students will participate in quarterly common assessments. **Credits: 4**



PENDING SY21-22

Speech

Course #: ec _____

Level: Early College / Semester 1

This Early College course

This Early College course will focus on the nature and effects of verbal communication. Students will become familiar with the communication process, including some of the following: principles of organization, purpose, language structure, effective delivery, and audience analysis. Students individually will use these elements in informative and persuasive speaking in the traditional speaker-audience relationship. This course will be taught by a North Shore Community College faculty member who will teach the class online during the Essex North Shore Agricultural & Technical School day in an ENSATS classroom block along with other times, at least twice per month, when students will make NSCC campus* visits. Successful completion of this Early College course will result in students earning both ENSATS' high school credit along with NSCC college credit.

This course is a Semester 1 only class. ***ENSATS Credits: 4***

**Dependent on COVID 19 campus restrictions.*

Composition 101

Course #: ec _____

Level: Early College / Semester 2

This Early College course

This Early College course emphasizes developing skills of writing, reading, analytical thinking, and research. Students are introduced to thought provoking ideas in readings from a variety of disciplines and learn to organize material, analyze ideas, and produce clear writing. Fulfills open and liberal arts electives. This course will be taught by a North Shore Community College faculty member who will teach the class online during the Essex North Shore Agricultural & Technical School day in an ENSATS classroom block along with other times, at least twice per month, when students will make NSCC campus visits. Transportation will be provided on visits to the NSCC campus*. Successful completion of this Early College course will result in students earning both ENSATS' high school credit along with NSCC college credit. This course is a Semester 1 only class.

ENSATS Credits: 4

**Dependent on COVID 19 campus restrictions.*



Discontinued for 2021-22

- Business & Entrepreneurship (CP)
- Law and the Workplace (CP)
- Sustainable Science (CP)