



## Grade 10 Academic Courses 2021-2022

**English 10 (CP, ACP, H)**

**Geometry (CP, ACP, H)**

**Algebra II (H)**

**United States History I (CP, ACP, H)**

**Biology Options:**

- **Biology II (CP, ACP, H)**
- **Advanced Placement Biology**

**World Language:**

- **Spanish II (CP, H)**

**Career Technical Education (CTE) Pathway Foundation Courses:**

- **Financial Literacy (CP)\***
- **U.S. Government & Politics (CP)\***

**Early College (in partnership with North Shore Community College):**

- **Understanding Higher Education (Early College)\***

**BOLD denotes required content course.**

*\*Term length is semester based*



### **English 10**

**Course #: 1202, 1201, 1200**

**Level: Honors, ACP, CP**

This course is based on the *Massachusetts Curriculum Framework for English Language Arts and Literacy* (2017) and deepens students focus on acquiring the reasoning and analytical skills associated with literature and rhetoric. The course will continue to focus on helping students learn skills that allow them to discern depth of text by making connections between literary and thematic elements and text-based support established in freshman year. Anchor and linking texts span long and short fiction, drama, and nonfiction. Synthesis of multiple texts will be integral to the curriculum, and students will complete classroom activities along with formative and summative assessments requiring synthesis throughout the year. All students will participate in quarterly common assessments. **Credits: 4**

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### **Algebra II**

**Course #: 2232, 2231**

**Level: Honors, ACP**

Continuing the progression for entering Grade 10 students who successfully completed Geometry in Grade 9, this course addresses the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards for Algebra II. The focus is on the following 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 work closely with the expressions that define the functions, are facile with algebraic manipulations of expressions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. All students will participate in quarterly common assessments. **Credits: 4**

### **Geometry**

**Course #: 2202, 2201, 2200**

**Level: Honors, ACP**

This course addresses the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards for Geometry. Geometry focuses 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. All students will participate in quarterly common assessments. **Credits: 4**



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### **United States History I**

**Course #: 4202, 4201, 4200**

**Levels: Honors, ACP, CP**

This course is the first part of a sequence of United States history that will be completed the following year in Grade 11 and is based upon the *Massachusetts History and Social Science Curriculum Framework* (2018). The goal is to deepen student understanding of the United States by examining the events leading up to the American Revolution to the early twentieth century. Major units include the study of the Constitution, the Early Republic, Jacksonian Democracy, Manifest Destiny, sectionalism, the U.S. Civil War, industrialization in the U.S., and U.S. Imperialism. Students will conduct critical reading and analysis using a variety of content to hone proficiency in primary and secondary source evaluation, evaluate cause and effect, develop and prove claims with evidence, and make inferences by critically evaluating content and writing supported arguments. Students will also begin publishing formal research papers with cited sources. Independent reading is a component of United States History I. All students will participate in quarterly common assessments. **Credits: 4**

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### **Biology II**

**Course #: 3202, 3201, 3200**

**Level: Honors, ACP, CP**

This course completes the second year of the two-year sequence in the study of biological sciences and the specific terminology and methodology relating to the basic concepts of life and its processes. Learning standards for Biology II serve as the foundation for the following three units: Ecology; Evolution and Biodiversity; Anatomy and Physiology and are based on the Massachusetts *Science and Technology/Engineering Curriculum Framework* (2016). All students will participate in quarterly common assessments. **Credits: 4**

### **Advanced Placement Biology**

**Course #: 3203**

**Level: AP**

Advanced Placement (A.P.) Biology is an introductory college-level course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes-energy and communication, genetics, information transfer, ecology, and interactions. Students are expected to take the College Board A.P. Biology Exam in May. College credit may be applied with a score of three or higher on the College Board exam. **Credits: 6**

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## **Spanish II**

**Course #: 6200, 6201**

**Level: H, CP**

Spanish II solidifies the introduction to the Spanish language and culture with more extended vocabulary and grammar concepts. Students will continue to practice reading, writing, listening, and speaking in Spanish. Students learn how to conjugate stem-changing verbs in the present tense, as well as both types of past-tense verbs. Spanish I is a prerequisite. All students will participate in quarterly common assessments. **Credits: 4**

## **Financial Literacy**

**Course #: 2250**

**Level: CP**

Financial Literacy is essential in meeting the financial challenge of the 21st Century with understanding and managing personal finances the key to one's future financial success. Based on the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards, this course teaches students to apply the knowledge and skills to various financial situations they will encounter later in life to make critical decisions regarding personal finances. Students will learn money management, savings and investing, income, and spending strategies. This course will teach students to identify and prioritize their personal money management goals, develop personal spending, savings, and investing plans, tax implications and understand the cost of using credit along with asset protection. This is a semester class. **Credits: 2**

## **United States Government & Politics**

**Course #: 4210**

**Level: CP**

This course is designed to provide tenth-grade students with a basic knowledge of the purpose, structure, and operation of the national and state governmental systems. Based upon the *Massachusetts History and Social Sciences Framework* (2018) and, more specifically, the *History, Social Science and Civics Education in Massachusetts: Implementation Updates, 2020-2021*. The primary content of study is the Federal system and its underlying principles as they are related to National, State, and local levels. This course will be a thought-provoking exploration taught through the lens of current events into the United States Government and Politics. We will cover such topics as the Constitution, civil rights, interest groups, politics, voting, Congress, the Presidency, the Judiciary, laws, public policies, state & local government. This course is a semester class. **Credits: 2**

## **Understanding Higher Education**

**Course #: ec4204**

**Level: Early College / Semester 1**

This Early College course provides an introduction to higher education, including the different purposes, functions, and structures of postsecondary institutions. Students will gain a comprehensive understanding of degree and career pathways available across institutional types as well as familiarity with the social and emotional factors that influence student persistence and completion across educational settings. A variety of contemporary issues in higher education will be explored, with particular emphasis on the ways in which student experiences intersect with these issues. Topics include but are not limited to academic discourse, social-emotional learning, educational planning, financial planning, college



placement options, prerequisites/corequisites, and teaching and learning modalities. This Early College course will be taught by an ENSATS instructor and NSCC faculty. **Learning will take place on both the ENSATS and NSCC campuses and transportation will be provided.** 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. *Credits: 4*