Atlantic Technical High School

COURSE DIRECTORY

2025-2026

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LANGUAGE ARTS:

English 1 Honors
Grade: 9

This course defines what students should understand and be able to do by the end of 9th grade. Knowledge acquisition should be the primary purpose of any reading approach as the systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy. At this grade level, students are working with universal themes and archetypes. They are also continuing to build their facility with rhetoric, the craft of using language in writing and speaking, using classic literature, essays, and speeches as mentor texts.

English 2 Honors
Grade: 10

This course defines what students in an honors setting should understand and be able to do by the end of 10th grade. Knowledge acquisition should be the primary purpose of any reading approach as the systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy. At this grade level, students are working with universal themes and archetypes. They are also continuing to build their facility with rhetoric, the craft of using language in writing and speaking, using classic literature, essays, and speeches as mentor texts.

English 3 Honors
Grade: 11

This course defines what students should understand and be able to do by the end of their grade level. Knowledge acquisition should be the primary purpose of any reading approach. The systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy. At this grade level, students are building their facility with rhetoric, the craft of using language in writing and speaking, using classic literature, essays, and speeches as mentor texts.

English 4 Honors
Grade: 12

This course defines what students should understand and be able to do by the end of their grade level. Knowledge acquisition should be the primary purpose of any reading approach. The systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy. At this grade level, students are building their facility with rhetoric, the craft of using language in writing and speaking, using classic literature, essays, and speeches as mentor texts.

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MATHEMATICS:

Algebra 1 Honors
Grade: 9

In Algebra 1 Honors, instructional time will emphasize five areas: (1) performing operations with polynomials and radicals, and extending the Laws of Exponents to include rational exponents; (2) extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real-world relationships; (3) solving quadratic equations in one variable and systems of linear equations and inequalities in two variables; (4) building functions, identifying their key features and representing them in various ways and (5) representing and interpreting categorical and numerical data with one and two variables.

Geometry Honors
Grade: 9 - 10

In Geometry Honors, instructional time will emphasize five areas: (1) proving and applying relationships and theorems involving two-dimensional figures using Euclidean geometry and coordinate geometry; (2) establishing congruence and similarity using criteria from Euclidean geometry and using rigid transformations; (3) extending knowledge of geometric measurement to two-dimensional figures and three-dimensional figures; (4) creating and applying equations of circles in the coordinate plane and (5) developing an understanding of right triangle trigonometry.

Algebra 2 Honors
Grade: 9 – 11

In Algebra 2 Honors, instructional time will emphasize six areas: (1) developing understanding of the complex number system, including complex numbers as roots of polynomial equations; (2) extending arithmetic operations with algebraic expressions to include polynomial division, radical and rational expressions; (3) graphing and analyzing functions including polynomials, absolute value, radical, rational, exponential and logarithmic; (4) extending systems of equations and inequalities to include non-linear expressions; (5)building functions using compositions, inverses and transformations and (6) developing understanding of probability concepts.

Discrete Math Honors
Grade: 11-12

In Discrete Mathematics Honors, instructional time will emphasize five areas: (1) extending understanding of sequences and patterns to include Fibonacci sequences and tessellations; (2) applying probability and combinatorics; (3) extending understanding of systems of equations and inequalities to solve linear programming problems; (4) developing an understanding of Graph Theory, Election Theory and Set Theory and (5) developing an understanding of propositional logic, arguments and methods of proof.

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Probability & Statistics Honors
Grade: 11-12
In Probability and Statistics Honors, instructional time will emphasize four areas: (1) creating and interpreting data displays for univariate and bivariate categorical and numerical data; (2) comparing and making observations about populations using statistical data, including confidence intervals and hypothesis testing; (3) extending understanding of probability and probability distributions and (4) developing an understanding of methods for collecting statistical data, including randomized trials.

Advanced Placement Pre-Calculus
Grade: 11-12
During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Modeling, a central instructional theme for the course, helps students come to a deeper understanding of each function type. By examining scenarios, conditions, and data sets, as well as determining and validating an appropriate function model, students develop a greater comprehension of the nature and behavior of the function itself. The formal study of a function type through multiple representations (e.g., graphical, numerical, verbal, analytical), coupled with the application of the function type to a variety of contexts, provides students with a rich study of precalculus.

Math for College Algebra
Grade: 12
In Mathematics for College Algebra, instructional time will emphasize five areas: (1) developing fluency with the Laws of Exponents with numerical and algebraic expressions; (2) extending arithmetic operations with algebraic expressions to include rational and polynomial expressions; (3) solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts; (4) modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities; (5) extending knowledge of functions to include inverse and composition.

Dual Enrollment College Algebra
Grade 11 -12
This course provides a comprehensive study of fundamental algebraic concepts and techniques, preparing students for higher-level mathematics and application in various fields. Topics include linear, quadratic, polynomial, rational, exponential, and logarithmic functions; equations and inequalities; systems of equations; complex numbers; and graphing techniques. Emphasis is placed on function analysis and problem-solving strategies.

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SCIENCE:

Biology Honors
Grade: 9-10
While the content focus of this course is consistent with the Biology I course, students will explore these concepts in greater depth. In general, the academic pace and rigor will be greatly increased for honors level course work. Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course.

Chemistry
Grades 9-12
This course will provide students with the opportunity to study the composition, properties, and changes associated with matter. Topics included are classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions, and balanced equations, behavior of gases, physical changes, acids, bases, and salts. Laboratory activities will include the use of scientific methods, measurements, laboratory apparatus usage and safety.

Marine Science Honors
Grade: 9-12
This class will provide students with an advanced overview of the unique characteristics of the marine environment exploring the physical and biological characteristics of seawater. Some topics included are the ocean's present and potential resources, marine biology interactions with technology and society, and interrelationships between humankind and the ocean environment. Laboratory activities will include the use of scientific methods, measurements, laboratory apparatus use and safety.

Environmental Science Honors
Grades: 9-12
This course is designed as an interdisciplinary course to provide students with scientific principles, concepts, and methodologies required to identify and analyze environmental problems and to evaluate risks and alternative solutions for resolving and/or preventing them. Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course.

Anatomy and Physiology Honors
Grades 10-12
This class will provide students with advanced exploration activities in structure and functions of the components of the human body. Some topics included are anatomical terminology, cells & tissues, systems of the body, disease and inheritance. Laboratory activities will include the use of scientific methods, measurements, laboratory apparatus usage and safety.

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Physics 1 Honors
Grades 10-12
This class will provide students with an in-depth study of the theories and laws governing the interaction of matter, energy and the forces of nature. Some topics included are kinematics, dynamics, energy, work and power, heat, thermodynamics, wave characteristics, light, electricity, magnetism, and nuclear physics. Laboratory activities will include the use of scientific methods, measurements, laboratory apparatus usage and safety.

Ecology
Grades 9-12
Ecology is the scientific study of interactions among organisms and their environment. This course provides students with a foundational understanding of ecological principles, including ecosystems, energy flow, biogeochemical cycles, population dynamics, biodiversity, and human impacts on the environment. Students will explore both natural and human-influenced systems through hands-on investigations, lab work, field studies, data analysis, and research projects. Emphasis is placed on developing scientific inquiry skills, critical thinking, and environmental literacy to better understand the challenges facing local and global ecosystems.
This course is ideal for students interested in biology, environmental science, conservation, or sustainability.

SOCIAL STUDIES:

Advanced Placement Human Geography
Grades 9-12
AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

World History Honors
Grades 10
This course is a continued in-depth study of the history of civilizations and societies from the middle school course and includes the history of civilizations and societies of North and South America. Students will be exposed to historical periods leading to the beginning of the 21st Century. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to review those fundamental ideas and events from ancient and classical civilizations.

United States History Honors
Grades 11
United States History course consists of the following content area strands: United States History, Geography, and Humanities. The primary content emphasis for this course pertains to the study of United States history from Reconstruction to the present day. Students will be exposed to the historical, geographic, political, economic, and sociological events which influenced the development of the United States and the resulting impact on world history. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to review those fundamental ideas and events which occurred before the end of Reconstruction.

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Advanced Placement United States History
Grades 11

AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

US Government Honors
Grades 12

The United States Government course consists of the following content area strands: Geography, Civics and Government. The primary content for the course pertains to the study of government institutions and political processes and their historical impact on American society. Content should include, but is not limited to, the functions and purpose of government, the function of the state, the constitutional framework, federalism, separation of powers, functions of the three branches of government at the local, state and national level, and the political decision-making process.

Economics Honors
Grades 11-12

The Economics course consists of the following content area strands: Economics and Geography. The primary content emphasis for this course pertains to the study of the concepts and processes of the national and international economic systems. Content should include, but is not limited to, currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and business cycle.

African American History
Grades 11-12

The African American History Honors course consists of the following content area strands: World History, American History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the study of the chronological development of African Americans by examining the political, economic, social, religious, military and cultural events that affected the cultural group. Content will include, but is not limited to, West African heritage, the Middle Passage and Triangular Trade, the African Diaspora, significant turning points and trends in the development of African American culture and institutions, enslavement and emancipation, the Abolition, Black Nationalist, and Civil Rights movements, major historical figures and events in African American history, and contemporary African American affairs.

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History of the Holocaust
Grades 11-12

The Holocaust course consists of the following content area strands: American History, World History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the examination of the events of the Holocaust (1933-1945), the systematic, planned annihilation of European Jews and other groups by Nazi Germany. Content will include, but is not limited to, the examination of twentieth century pogroms and of twentieth century and twenty-first century genocides, investigation of human behavior during this period, and an understanding of the ramifications of prejudice, racism, and stereotyping.

Multicultural Studies
Grade 10

The Multicultural Studies course consists of the following content area strands: American History, World History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the study of the chronological development of multicultural and multiethnic groups in the United States and their influence on the development of American culture. Content should include, but is not limited to, the influence of geography on the social and economic development of Native American culture, the influence of major historical events on the development of a multicultural American society and a study of the political, economic and social aspects of Native American, Hispanic American, African American and Asian American culture.

Psychology 1
Grades 10-12

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this first introductory course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior, psychological therapies, stress/coping strategies, and mental health.

Psychology 2
Grades 10-12

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this second introductory course includes statistical research, psychobiology, motivation and emotion, sensation and perception, states of consciousness, psychological testing, and social psychology.

Advanced Placement Psychology
Grades 10-12

AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology.

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Ethics
Grade 12
The Ethics course consists of the following content area strands: American History, World History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the study of the foundations of ethical thought and theories and the process of moral development. Content should include, but is not limited to, the sources of ethical beliefs and practices, traditional ethical theories, the strengths and weaknesses of the principal models of moral development, the typical fallacies in flawed moral arguments, the difference between an ethical choice and a legal decision, major ethical questions in American society such as public service, law, the workplace, bioethics, and new technologies, and current ethical issues in the local and national arena.

Humanities 1 Honors
Grade 12
The purpose of this course is to enable students to examine, understand, and respond to creative efforts of individuals and societies through interdisciplinary study of the arts and their connections to areas such as history, literature, philosophy, and religion from early civilizations to 1500, including ancient Greece and Rome, the Byzantine empire, and medieval European society.

The content should include, but not be limited to, the following:

- characteristics of the visual and performing arts
- influence of history, literature, philosophy, and religion on the arts
- analysis of ideas and artistic expression across varied cultures
- contributions of major visual and performing artists
- impact of history and culture on today's societies and cultures

WORLD LANGUAGES:

Spanish 1
Grades 9-12
Spanish 1 introduces students to the target language and its culture. The student will develop communicative skills in all 3 modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities.

Spanish 2
Grades 9-10
Spanish 2 reinforces the fundamental skills acquired by the students in Spanish 1. The course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in Spanish 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

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Spanish 3 Honors
Grades 9-12
Spanish 3 provides mastery and expansion of skills acquired by the students in Spanish 2. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected readings. Contemporary vocabulary stresses activities which are important to the everyday life of the target language-speaking people.

Spanish 4 Honors
Grades 9-12
Spanish 4 expands the skills acquired by the students in Spanish 3. Specific content includes, but is not limited to, more advanced language structures and idiomatic expressions, with emphasis on conversational skills. There is additional growth in vocabulary for practical purposes, including writing. Reading selections are varied and taken from the target language newspapers, magazines, and literary works.

Advanced Placement Spanish Language
Grades 9-12
AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges.

PHYSICAL EDUCATION:

Personal Fitness
Grades 9-10
The purpose of this course is to provide students with the knowledge, skills, and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill-related components of physical fitness which are critical for students' success.

Individual Dual Sports 1/2
Grades 9-10
The purpose of this course is to provide students with the knowledge, skills, and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill-related components of physical fitness which are critical for students' success.

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OTHER ELECTIVES:

Critical Thinking & Study Skills
Grades 9-10
This course is designed to develop skills related to critical thinking, learning and problem solving, enabling students to enhance their performance in both academic and non-academic areas. Strategies for acquiring, storing and retrieving information, time management and organizational skills, critical thinking operations and processes, strategies for oral and written communication, and problem-solving skills including test taking skills are an integral part of this course.

Career Research & Decision Making
Grades 9-10
The purpose of this course is to develop career planning competencies, enabling students to make informed career choices and develop the skills needed to successfully plan and apply for college or a job. The content should include, but not be limited to, the following:

- goal-setting and decision-making processes
- self-assessment
- sources of career information
- occupational fields and educational requirements -postsecondary education and training opportunities - writing, listening, viewing, and speaking skills for applications and interviews
- financial planning and sources of educational financial assistance
- career planning

Health Explorations Honors
Grades 9-10
The purpose of this course is for students to apply health-related research practices. Experiences include discourses in major health problems in society, modern health practices, current scientific findings related to human diseases and disorders, collection, analysis and evaluation of health information, health advocacy trends, and health career investigations.

Research 1 Algebra or Geometry
Grades 9-12
This course supports students who need additional instruction in foundational mathematics skills as it relates to core instruction. Instruction will use explicit, systematic, and sequential approaches to mathematics instruction addressing all strands including number sense & operations, algebraic reasoning, functions, geometric reasoning and data analysis & probability.

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Research 1 Spanish Culture
Grades 9-12

The course provides a comparative look at different Hispanic cultures, highlighting shared values, regional differences, and unique expressions through art, literature, music, religion, traditions, and contemporary issues. Emphasis is placed on understanding cultural perspectives through authentic materials such as films, essays, music, and literary texts. The course promotes intercultural awareness, critical thinking, and appreciation for the complexities of Hispanic societies.

Leadership Strategies Honors
Grades 10-12

This course introduces students to the fundamentals of journalism while providing hands-on experience in producing the school's yearbook. Students will learn the core principles of journalistic writing, editing, photography, graphic design, and layout using digital publishing tools. The course emphasizes real-world skills such as meeting deadlines, working in teams, and developing a strong sense of responsibility and ethics in media production.

Students will plan, design, and publish the school yearbook, covering school events, academics, sports, student life, and more. They will take on roles such as writers, editors, photographers, designers, and marketing coordinators to create a professional-quality publication that captures the spirit of the school year.

Advanced Placement Capstone Seminar
Grades 10

AP Capstone Seminar is a first-year course in the AP Capstone program, designed to develop college-level skills like research, analysis, and communication. It prepares students for the AP Research course and can also be taken as a standalone course. Students learn to analyze arguments, evaluate evidence, and synthesize information from various sources. The AP Seminar curriculum includes both team and individual projects.

Debate 1
Grades 9-10

This course focuses on the use of correct and effective language and organizational skills in preparing, delivering, and evaluating arguments and debate. Students will critique debates, paying attention to content, organization, language, and delivery style, and produce and present well-structured, developed arguments, applying oral communication concepts and strategies for public debate in a variety of given settings.

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Debate 2
Grades 9-10
This course is focused on the continued use of correct and effective language and organizational skills in preparing, delivering, and evaluating argument and debate. Students will critique debates, paying attention to content, organization, language, and delivery style, and produce and present well-structured, developed arguments, applying oral communication concepts and strategies for public debate in a variety of given settings.