

## BOLTON HIGH SCHOOL

Program of Studies 2022-2023



**Bolton High School Students are....** 

capable, ethical, healthy, responsible and thoughtful citizens.



Our Results:

Bolton graduates excel in the challenge of higher education and obtain the skills for successful and meaningful employment in the twenty-first century. Bolton High School delivers the small school, personalized attention one would expect while also offering the academics, athletics, arts, and activities of a school four to five times larger!

These programs bring together students whose talent, growth potential, individualism, and dedication benefit and enrich the supportive and personal Bolton environment.

Each of our students embark on a journey of exploration and discovery with a dedicated group of teachers, mentors, and coaches – an experience both academically and personally rewarding.

In small, intense academic settings, students learn from caring adults and from fellow students. In team settings, students benefit from a camaraderie founded on good sportsmanship. In the arts, students explore their own creativity and unlock artistic, theatrical, and musical potential. In community service projects, students focus on regional and global awareness.

Every Bolton student has a unique story and a unique relationship with students and teachers. The thread connecting these stories is a commitment to the highest standards of academic rigor, ethical behavior, as well as thoughtful and responsible actions.

The material covered in this program of studies is intended as a method of communication with students and parents regarding school courses and programs as well as general district information, rules, and procedures and is not intended to either enlarge or diminish Board policy, administrative regulation, or negotiated agreement. The information in this booklet is not an irrevocable contractual commitment to the student or parent. Any information in this booklet is subject to unilateral revision or elimination.

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Please Note: Every effort will be made to meet all student course requests; however, insufficient enrollment or budget reductions can cause course cancellations. It will not always be possible to accommodate all course requests, but priority is given to upperclassmen.

The Bolton Board of Education, in compliance with federal and state law, affirms its policy of equal educational opportunity for all students and equal employment opportunity for all persons. It is the policy of the District to provide equal opportunity for all students to achieve their maximum potential through the programs offered in all District schools regardless of race, color, age, creed, religion, sexual orientation, ancestry, national origin or disability. The District shall provide to all students without discrimination, course offerings, counseling, assistance, employment, athletics, and extracurricular activities. The District shall make reasonable accommodations for identified physical and mental impairments that constitute disabilities, consistent with federal and state statutes and regulations. All vocational education opportunities in the Bolton Public Schools will be offered without regard to race, color, national origin, sex, sexual orientation, or handicap.

A copy of the grievance procedure is available from the Principal.

## BOLTON HIGH SCHOOL MISSION STATEMENT

#### **Our Mission**

The Bolton Public Schools provide a safe, engaging, and challenging environment in which all students develop essential skills and values.

#### **Our Vision**

Educate students to become capable, ethical, healthy, responsible, and thoughtful students.

### We Believe

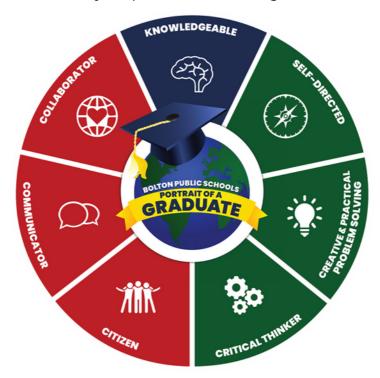
- Quality Education is an indispensable community investment for the future of students and society
- Quality education is a partnership that requires commitment, communication, and collaboration among the student, family, school, and the community
- All students are valued and have the right to an education that meets their academic, physical, and social/emotional needs
- It is important for students to recognize and value excellence
- High expectations and shared accountability are essential for the success of each student

#### **BOLTON PUBLIC SCHOOLS DISTRICT GOALS**

- 1. All students will apply **critical thinking** to the construction and critique of arguments
- 2. All students will read, write, produce, and speak grounded in evidence for a variety of purposes and audiences and utilize collaboration and digital literacy skills to enhance communication.
- 3. All students will use a variety of research tools to access, evaluate, synthesize, and apply information effectively.
- 4. All students will see problems as opportunities, approaching twenty-first-century challenges with **ethical** leadership, boldness, **creativity**, and responsible **citizenship**.

## Bolton High School Portrait of a Graduate

The Bolton Public Schools' Portrait of a Graduate is intended to inspire, motivate, and guide the work of students, teachers, schools, and the district as we prepare all students to be capable, ethical, healthy, responsible, and thoughtful citizens.



#### Civic Engagement

#### Communicator

 Listening and articulating effectively for a variety of purposes and audiences

#### Collaborator

 Working well with others while being willing to understand and offer alternate points of view

#### Citizen

 Demonstrating civic responsibility, participating in the democratic process, impacting the community responsibly, embracing diversity with empathy and respect, making safe, legal and ethical choices

## **Content Mastery**

#### Knowledgeable

 Possessing and exhibiting knowledge and skills to succeed as a learner, worker, and citizen



## Lifelong Learning and Innovation

#### Self-Directed

 Acting independently with integrity while demonstrating personal accountability and making a positive contribution

#### Critical Thinker

 Analyzing, evaluating, interpreting, synthesizing information, and applying creative thought to raise vital questions, form arguments, solve problems, or reach solutions

## Creative & Practical Problem Solver

 Identifying, defining, and solving authentic problems and addressing challenges with creative thinking and innovation

## BOLTON HIGH SCHOOL EXPECTATIONS FOR STUDENT LEARNING

#### **ACADEMIC EXPECTATIONS**

The Bolton High School graduate...

- reads actively, critically, and competently for a variety of purposes and communicates literal, interpretive, and critical understandings in clear expository, narrative, and descriptive writing
- writes effective persuasive essays by taking a clear position, supporting that position with accurate and relevant information, organizing ideas logically and effectively, and expressing ideas with clarity and fluency
- understands important mathematical concepts and procedures, and engages in complex mathematical tasks and methods to solve problems
- has a knowledge base in the biological, earth, and physical sciences, understanding unifying themes in the sciences and applies the scientific principles and methods through research investigations and inquiry-based activities
- speaks clearly and concisely, communicating effectively and accurately in meaningful conversation, so as to defend a position and exchange information
- has a fundamental knowledge of a language other than English and understands and respects the diversity of languages and cultures
- uses libraries, as well as information and communications technology, to retrieve, synthesize, and communicate information
- displays skillful and creative expression in the arts and evaluates artistic character and aesthetic qualities in art forms

#### **SOCIAL EXPECTATIONS**

The Bolton High School graduate...

- meets the demands of the employment market by demonstrating the skills and the knowledge necessary for career opportunities and options
- is aware of their post-secondary educational options
- understands that each individual is instrumental in improving the quality of life for all members of the community
- demonstrates critical, creative, and innovative thinking, while identifying and solving real-world problems
- · understands the need and accepts the responsibility for autonomous learning and self-direction
- recognizes and demonstrates the principles of wellness and physical fitness

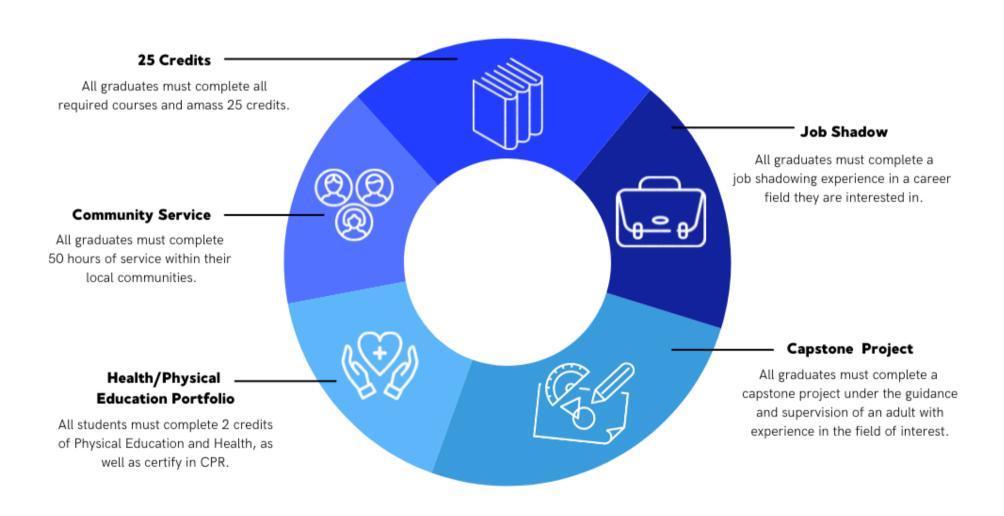
#### **CIVIC EXPECTATIONS**

The Bolton High School graduate...

- understands and values the responsibilities and the rights of United States citizenship and knowledgeably participates in the democratic process
- understands and respects the need for standards of self-discipline, accountability, integrity, and ethics in a civil society
- demonstrates collaboration skills as a member of a team, is able to teach others new skills, and exercises leadership qualities and negotiation skills
- demonstrates the ability to work with and show respect for diverse groups of people and recognizes the need for social responsibility and global awareness

## **GRADUATION REQUIREMENTS**

Students must fulfill all requirements in order to receive their diploma



## **GRADUATION REQUIREMENTS**

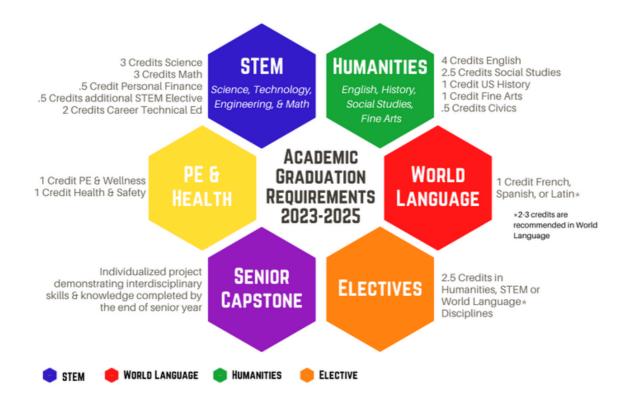
To ensure that all students are prepared for post-secondary education, the credit requirements represent a rigorous set of expectations for all students - not merely a set of "minimum" requirements.

In addition to earning credits, students must demonstrate skills through performance assessments in every course and meet the *academic performance expectations* and the *product-based performance expectations* (see page 8) as part of the school's graduation requirements.

Measuring performance standards as part of the school's graduation requirements is a necessary complement to the credit requirements. Only through such a system of measurement can Bolton High School guarantee the mastery of expectations that the school and community have articulated as the set of skills necessary for success in the twenty-first century and for sustained life-long learning.

Please note that Virtual High School (VHS) courses do not count toward a student's GPA.

Grade	AP	Honors	College Prep
A+/A = 93-100	4.67	4.33	4.0
A- = 90-92	4.33	4.0	3.67
B+ = 87-89	4.0	3.67	3.33
B = 83-86	3.67	3.33	3.0
B- = 80-82	3.33	3.0	2.67
C+ = 77-79	3.0	2.67	2.33
C = 73-76	2.67	2.33	2.0
C- = 70-72	2.33	2.0	1.67
D+ = 67-69	2.0	1.67	1.33
D = 63-66	1.67	1.33	1.0
D- = 60-62	1.33	1.0	.67
F = 0-59	0.00	0.00	0.00



A student who presents written documentation from a physician or advanced practice registered nurse stating that participation in physical education is not advisable because of the physical condition of the student shall be excused from the physical education requirement. In such a case, another subject must be substituted.

In addition to the Bolton High School credit requirements, students must demonstrate mastery of the following transferable skills:

Critical Thinking
Communication
Creative and Practical Problem Solving
Local and Global Citizenship
Self-Direction

## Students must also successfully complete the following:

- Education/Career Portfolio (including a job shadow)
- Community Service
- Senior Capstone Project
- Health/Physical Education Portfolio

## POST SECONDARY PLANNING

#### PREPARING FOR COLLEGE

Students who are preparing for college should plan their program carefully, keeping in mind college entrance requirements. Each year, BHS counselors review students' programs to assist in this area. Those students who elect the most rigorous program, work to the best of their ability, and have good citizenship records, will increase their chances of success in reaching goals in further education.

A minimum college preparatory program should include four years of English, four years of Mathematics, four years of Social Studies, three to four years of Science, and three years of the same World Language.

Students interested in Science or Engineering must include four years of Mathematics and four years of Science (including Chemistry and Physics). Students interested in Health careers should follow a college preparatory program consisting of four years of Mathematics and four years of Science (including Chemistry).

#### PREPARING FOR TECHNICAL SCHOOLS, TWO YEAR SCHOOLS, & COMMUNITY COLLEGES

Students preparing for two-year technical schools and colleges should include four years of English, four years of college-preparatory Mathematics, four years of Social Studies, three years of Science, and some Technology Education or Business Education courses.

Students interested in preparation for junior colleges and business colleges should follow a college preparatory program and satisfy any special requirements of specific schools. Supplementary electives from Business Education including computer courses, Family & Consumer Sciences, the Arts, and Technology Education are strongly recommended.

#### **COLLEGE CREDIT COURSES & OPPORTUNITIES**

Bolton High School offers many opportunities to receive college credit during the Junior and Senior years. Courses for college credit are available through a variety of programs including the University of Connecticut Early College Experience program (UConn ECE) and the College Board Advanced Placement program (AP).

Students have the opportunity to graduate from high school with college credits, saving considerable time and money for themselves down the road. Starting college with these credits may enable students to take higher-level courses in college and/or complete college earlier. Taking a college-level course while in high school may also help students gain confidence in their ability to master college work. UConn's ECE program charges per credit for each course. AP charges a fee for the exam taken that qualifies the student for credit.

#### **UCONN EARLY COLLEGE EXPERIENCE (ECE)**

The University of Connecticut Early College Experience provides academically motivated students the opportunity to take university courses while still in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and financial head-start on a college degree. UConn ECE instructors are high school teachers certified as adjunct professors by the University. UConn ECE faculty fosters independent learning, creativity, and critical thinking – all pivotal for success in college.

These courses follow the same curriculum and use the same textbooks as the courses taught at the University of Connecticut. To support rigorous learning, University of Connecticut library resources and online classroom access are available to students.

UConn ECE students must successfully complete the course with a grade of "C" or above in order to receive University credit. University credits are transferable to many colleges and universities. Students are charged a per credit fee in the fall.

For additional information visit: www.ece.uconn.edu.

BHS COURSE TITLE & NUMBER	UCONN COURSE TITLE & NUMBER	CREDITS
SCI1106ECE: UConn Environmental Science	NRE 1000E: UConn Environmental Science	3
MA1206ECE: Elementary Discrete Mathematics	Math 1030Q: Elementary Discrete Mathematics	3
MA1201H: UConn Calculus I	Math 1131Q: Calculus I	4
MA1204ECE: UConn Statistics	STAT 1100Q: Elementary Concepts of Statistics	4

#### **ADVANCED PLACEMENT (AP)**

The College Board Advanced Placement program is a national program that prepares students, upon completion of the course, to take the AP examinations in May and earn college credit. Students are recommended for these courses by the previous teacher in that subject. Scores on the AP exams range from 1 to 5. Each college determines its own AP credit policy. Students must receive at least a score of 3 to be considered eligible for credit and many schools require a score of 4 or 5. Listed below are the specific AP courses that prepare students for the exams. There is a fee for the AP exam.

BHS COURSE TITLE & NUMBER			
AP English Literature	BHS Course E1206AP		
AP United States History	BHS Course SS1103AP		
AP English Language & Composition	BHS Course E1103AP		
AP Spanish	BHS Course SP1201AP		
AP Computer Science Principles	BHS Course MA1105AP		
AP Statistics	BHS Course MA1204AP		
AP Biology	BHS Course SC1202AP		

## **COURSE SELECTION GUIDE**

## THE IMPORTANCE OF SUBJECT SELECTION

The "Course Selection" portion of the Bolton High School Program of studies has been developed to assist students in choosing subjects and a high school program. All students and parents should read the following sections carefully in order to understand the types of programs offered at Bolton High School.

## PLANNING YOUR HIGH SCHOOL PROGRAM

In the "Graduation Requirements" section of the Bolton High School Program of Studies, certain courses are identified as required in grades 9-12 as a result of the Connecticut State Statutes and Board of Education policy. Students are allowed many elective courses that should be chosen to satisfy individual interests, abilities, and future plans. Entering Freshmen should consider the course-of-study they intend to follow throughout high school. Although changes may be made, it is advisable to think in terms of a four-year plan. Counselors revisit and revise a four-year written plan of studies every spring when courses are chosen for the upcoming year.

When choosing courses, students should consider other abilities, aptitudes, and special interests. For students currently in high school, it might be wise to evaluate past performance in a subject area. As students move along in grades 10 and 11, post high-school plans should be considered. Teachers make course-level recommendations in choosing courses. At all times, now and during the school year, students should seek the advice of parents, teachers, and their school counselor.

#### **COURSE LOAD**

All students are required to carry a minimum of 6 full credits per year and take Physical Education/Health in grades 9 and 10.

An average of C- or better is recommended for students to continue in the second year of any sequential elective subject. For example, students who receive a final grade of D in a World Language may not be recommended by the teacher or school counselor to move on to the next level.

If there are any requests for exceptions to the requirements, parents should plan a conference with the Principal and the school counselor.

## GRADE LEVEL MATRICULATION

Students at Bolton High School are expected to earn academic credits each year to progress from one grade level to the next. The minimum credit requirements are:

For promotion to Sophomore Year: 6.0 Credits

For promotion to Junior Year: 12.0 Credits

For promotion to Senior Year: 18.0 Credits

## **EXAMPLE SCHEDULE**

The following is an example of classes to take each year - talk with your school counselor to build your own. Required courses are italicized and electives are marked with an asterisk (\*).

#### **Freshman**

## Year Long Courses:

English I - 1 credit

Math - 1 credit

Science 9 - 1 credit

World Language I - 1 credit

World History & Cultures I - 1 credit

PE/Health - 1 credit

Study Hall

#### Half Year Courses

\*Guitar Performance 1 - .50 credits \*Culinary I - .50 credit

### Sophomore

### Year Long Courses:

English II - 1 credit

Math - 1 credit

Biology - 1 credit

World Language II - 1 credit

World History & Cultures II - 1

credit

PE/Health - 1 credit

\*Art I - 1 credit

#### Half Year Courses

\*Construction & Structures- .50 credit \*Guitar Performance II - .50 credit

#### **Junior**

## Year Long Courses:

English Electives - 1 credit

Math - 1 credit

Chemistry - 1 credit

World Language III - 1 credit

United States History I - 1 credit

#### Half Year Courses

\*Robotics & Engineering - .50 credit \*Personal Finance - .50 credit \*Culinary II - .50 credit \*Ceramics/Clayworks - .50 credit

#### **Senior**

## Year Long Courses:

Science - 1 credit Social Studies Electives- 1 credit AP/UConn Statistics - 1 credit \*Bakeshop - 1 credit

#### Half Year Courses

\*Public Speaking - .50 credit

Civics - .50 credit

\*Astronomy - .50 credit

Wealth Management - .50 credit

## Options to Consider

- There are a number of options with the courses you can take, including:
  - Advanced Placement courses (AP)
  - · Honors Level courses
  - ECE/UConn Courses
  - Full-year vs. half-year electives

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## **ART**

The visual arts are a vital part of every student's education. The visual arts promote creative thinking, self-esteem, and discipline, which are necessary requirements for learning in all subject areas. The visual arts allow students to develop their imagination, problem-solving techniques, and critical thinking skills. These skills ultimately enhance students' ability to adapt to various situations, capacity to use good judgment, comprehension of alternate solutions, and openness to different views and opinions. Students will utilize these skills in becoming effective individuals in an interdependent society. The visual arts prepare students to:

- develop increasing abilities to pose insightful questions about contexts, processes, and criteria for evaluation;
- develop deeper and more profound works of visual art that reflect the maturation of students creative and problem-solving skills;
- develop vocabularies and concepts associated with various types of work;
- understand the multifaceted interplay of different media, styles, forms, techniques, and processes in the creation of student work;
- relate understandings about the historical and cultural contexts of art to situations in contemporary life.

In Bolton, our district schools are committed to empowering all students through the visual arts curricula K-12. Lessons are aligned to National Visual Arts Standards and Common Core State Standards for English Language Arts. In addition to National and State assessments, students are evaluated by completing and demonstrating proficiency on the Arts/Aesthetic Literacy assessment required for graduation at Bolton High school.

	COURSE OFFERINGS		
A901	Art I/Introduction to Art	Grade 9-12	1.00 CR
A1001	Ceramics/Clayworks	Grade 9-12	.50 CR
A1002	Painting & 2D Design	Grade 10-12	.50 CR
A1004	Advanced Drawing	Grade 10-12	.50 CR
A902	Photography I	Grade 10-12	.50 CR
A903	Photography II	Grade 10-12	.50 CR

## **Department Staff**Gregory Gallo ggallo@boltonct.org

#### **ART I/INTRO TO ART**

Grade: 9-12 1.00 Credit Prerequisite: None A901

This introductory art course exposes students to basic techniques in the following areas of art: drawing, painting & 2D design, printmaking and book arts, ceramics, and sculpture & 3D design. Students will study the basic art elements and design and will also be introduced to the history of art from pre-Columbian through the art of today. The projects designed for this course allow students to discover their own personal style while still exposing them to a variety of techniques and types of art. This is an introductory course. Students will be responsible for purchasing some materials for this course.

#### **CERAMICS/CLAYWORKS**

Grade: 9-12 .50 Credit Prerequisite: None A1001

This course exposes students to the properties of clay for creating functional and nonfunctional pottery pieces. The pottery of various cultures will be introduced as examples. Throughout the semester, students will learn the basic methods of hand-built pottery construction and wheel-thrown pottery. Students will also explore various methods of glazing and surface decoration. In addition, students will learn basic kiln technology. Students will be responsible for purchasing some materials for this course.

#### **PAINTING & 2D DESIGN**

Grade: 10-12 .50 Credit Prerequisite: A901 A1002

This course further exposes students to the various techniques of painting and 2-dimensional design that were previously introduced in Art I. Techniques, methods and media include the following: acrylic and/or oil on canvas, watercolor, tempera, impasto, and mixed media. Further indepth study of important movements and artists in the history of painting will be discussed and used for influence and study. Students will be responsible for purchasing some materials for this course.

#### **PHOTOGRAPHY I**

Grade: 10-12 .50 Credit Prerequisite: None A902

In this class, students will explore the historical, technical, and aesthetic principles of digital photography. This will be accomplished through viewing videos, reading, research, written assignments, and use of manual cameras. Classes will consist of informative lectures, as well as visual and demonstrative procedures for proper use of the camera. Students will be responsible for purchasing some materials for this course.

#### **ADVANCED DRAWING**

Grade: 10-12 .50 Credit Prerequisite: A901 A1004

This course is designed for students who wish to further develop drawing skills. Drawing problems will be presented, including topics such as: the exploded view; the unusual viewpoint; expression drawing; transformation and animation drawing; portrait and figural studies. A wide variety of drawing materials will be used including pencil, charcoal, pen and ink, pastels, ink brush, nontraditional drawing materials, etc. Areas of individual interest will be explored. Students will be responsible for purchasing some materials for this course.

#### **PHOTOGRAPHY II**

Grade: 10-12 .50 Credit Prerequisite: A902 A903

In this class, students continue the study of digital from Introduction to Photography. Students will advance their knowledge of photography through further lectures, demonstrations, advanced techniques, and advanced assignments. A wide variety of experimental photographic techniques will be used and alternative methods will be discussed. Students will be responsible for purchasing some materials for this course.



## **BUSINESS EDUCATION**

The emphasis of business education at Bolton High School is to prepare students to become productive and contributing members of society capable of lifelong learning and adaptability to change and economic self-sufficiency. Lessons within all business courses are aligned to the National and State Business Education Standards. The Business Education curriculum is also aligned with the State Common Core Standards and Competencies. The Business Department makes significant contributions to the total academic structure in a business-oriented society.

Business education courses at Bolton High School will:

- aid in the development of contemporary knowledge and skills for successful entry-level employment and advancement in business careers;
- promote the development of decision-making skills, time-management skills, language arts/communication, problem-solving skills, positive work habits, technology skills, and interpersonal attitudes in an office atmosphere;
- familiarize students with critical contemporary office procedures, software applications, terminologies, concepts, principles, and practices;
- provide an opportunity to relate specific skills to careers;
- provide basic skills for those students planning post-secondary education in business-related areas.

	COURSE OFFERINGS		
B902	Accounting I	Grade 9-12	1.00 CR
B903	Marketing	Grade 10-12	.50 CR
B904	Entrepreneurship	Grade 10-12	.50 CR
B1103	Wealth Management	Grade 11-12	.50 CR
B1101	Personal Finance	Grade 10-12	.50 CR

#### **Department Staff**

Carolyn Titelbaum ctitelbaum@boltonct.org

#### **ACCOUNTING I**

Grade: 9-12 1.00 Credit Prerequisite: None B902

This course offers students the fundamentals for a career in accounting using both manual and computerized procedures. It provides basic competence and a firm background for advanced accounting. This is accomplished through recording business transactions, preparing financial reports, and interpreting the results of operations for small and large business enterprises. The course also provides an excellent opportunity for students to become aware of employment possibilities in the accounting field, to develop good work habits, and foster a sense of responsibility and accuracy in assignments. Students may take Accounting I in their Junior or Senior year for a BHS mathematics credit.

#### **PERSONAL FINANCE**

Grade: 10-12 .50 Credit Prerequisite: None B1101

This course is a survey of topics of interest to the student as a consumer and potential investor. Topics include behavioral finance, workforce finances, budgeting, financial institutions, basic income tax, credit, investing, independent living, and consumer purchases. Students will discover the ways to maximize earning potential, develop strategies for managing resources, and explore skills for the wise use of credit. This course will begin a lifelong journey of personal financial planning. Students may take Personal Finance in their Junior or Senior year for a BHS mathematics credit.

#### **WEALTH MANAGEMENT**

Grade: 11-12 .50 Credit Prerequisite: B1101 B1103

Want to learn how to protect your financial property? The focus of this course is wealth management. In this course you will learn about strategies to grow and protect your assets. Topics covered include: financial decisions after high school, buying a car and house, retirement, financial pitfalls, and insurance. This course will prepare you for the essential personal finance skills life requires

#### **MARKETING**

Grade: 10-12 .50 Credit Prerequisite: None B903

This course provides students with the benefits of marketing to our society and to each student personally. Career opportunities will also be explored. The marketing decision process will also be examined. Students will learn the various marketing strategies businesses use to identify their customers and other essential topics, such as marketing concept, the marketing mix, market segmentation, and target marketing.

#### **ENTREPRENEURSHIP**

Grade: 10-12 .50 Credit Prerequisite: None B904

This course provides specialized instruction to both theory and practical application of the small business principles necessary for the operation of a successful small business. Designed for students who want to evaluate going into business for them or working for a small business. Course content should prove valuable to small business sales, finance, personnel, and the concepts and current practices of managing a small business. Students will learn the importance and use of a business plan and what it means for a successful business.





Electives



## **ENGLISH**

Bolton High School's English Department believes that language is a unique, dynamic structure that is essential to our humanity. We use language to interact with others and to communicate our ideas and feelings. Language is, therefore, an integral part of all phases of the learning process.

The English Department at Bolton High School guides students in developing patterns of productive thinking and learning through writing, reading, viewing, speaking, and listening. We seek to provide students with strategies that will enable them to pursue the spirit of inquiry through the analysis, synthesis, and integration of ideas. Students will learn to write with clarity, to read and view with understanding, and to communicate with precision. This variety of language experiences will enable students to become mature, literate, and competent contributors to the working world or the world of higher education.

A BHS graduate with four credits of English should be able to:

- comprehend, interpret, analyze, and evaluate appropriately complex literary and informational texts;
- produce clear and coherent expository, analytical, argumentative, and narrative writing for a range of tasks, purposes, and audiences;
- conduct research based on focused questions demonstrating understanding of the subject under investigation.

English Honors & AP English - these courses are specifically designed for students who are highly motivated and skilled, who have shown high academic promise in previous classes, and who have mastered language arts skills. Students are admitted to these courses based on their performance in previous English classes, and the previous teacher's recommendation.

**Academic English** - these courses are designed to provide a survey of literature, emphasizing writing and critical thinking skills.

	COURSE OFFERINGS		
E901	English I - Freshman English	Grade 9	1.00 CR
E902H	English I - Freshman English Honors	Grade 9	1.00 CR
E1001	English II - Sophomore English	Grade 10	1.00 CR
E1002H	English II - Sophomore English Honors	Grade 10	1.00 CR
E1101	Elective - American Literature	Grades 11-12	.50 CR
E1203	Elective - Part of the Whole: Contemporary Issues in Fiction	Grades 11-12	.50 CR
E1204	Elective - Peace & Conflict Studies	Grades 11-12	.50 CR
E1205	Elective - Public Speaking	Grades 11-12	.50 CR
E1206AP	AP English Literature	Grade 12	1.00 CR
E1201	Elective- A Voice & A Choice: Studies in Drama	Grades 11-12	.50 CR
E1103AP	AP English Language & Composition	Grade 11	.50 CR
E1207	Writing Composition, Style, & Techniques	Grades 11-12	.50 CR
E1102	Marginalization in American Literature	Grades 11-12	.50 CR

#### **Department Staff**

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## ENGLISH I - FRESHMAN ENGLISH ENGLISH I - FRESHMAN ENGLISH HONORS

Grade: 9 1.00 Credit
Required E901/E902H

In English E902H and E901, students examine the following genres of literature: novel, short story, non-fiction, poetry, memoir, and drama. Students learn literary terms and close-reading strategies to deepen reading comprehension and analysis of each genre. Students develop analytical, grammar, and writing skills through the composition of responses to a variety of texts, personal narratives, and literary analysis essays. Additionally, students will enhance listening and speaking skills with Socratic Seminars and research-based presentations. Students also practice the basics of MLA documentation.

#### ENGLISH II - SOPHOMORE ENGLISH ENGLISH II - FRESHMAN ENGLISH HONORS

Grade: 10 1.00 Credit
Required E1001/E1002H

In English E1002H and E1001, students further develop skills established in Freshman English through analysis of the five genres: novel, short story, non-fiction, poetry, and drama. Students improve vocabulary and technical proficiency through related writing. All documentation is done in MLA format.

#### **PUBLIC SPEAKING**

Grade: 11-12 .50 Credit
Prerequisite: None E1205

English E1205 is designed to provide students with a foundation in public speaking. Students are required to learn content information contained in the text and then to apply that knowledge by presenting numerous speeches to classmates. These speeches will vary in purpose, length, and content and must be accurately researched and documented using proper MLA format. Students learn to evaluate others' speeches in a constructive manner.

#### A VOICE & A CHOICE: STUDIES IN DRAMA

Grade: 11-12 .50 Credit
Prerequisite: None E1201

In English E1201, students read a variety of plays in order to learn the structure of drama. Students evaluate each piece of drama for its literary elements, cultural and historical significance, and artistic merit. Students analyze four to eight plays reflecting a common thematic or literary focus. These themes may include struggles within society, the dynamics of family relationships, and the pressures of each on the individual as portrayed in both realistic and satiric fashion.

## A PART OF THE WHOLE: CONTEMPORARY ISSUES IN FICTION

Grade: 11-12 .50 Credit
Prerequisite: None E1203

In English E1203, students read a variety of novels and short fiction evaluating each piece for its literary elements, cultural and historical significance, and artistic merit. Students analyze five to ten works reflecting a common thematic or literary focus exploring the relationships of individuals to the societies in which they must exist. These themes may include coming of age, tolerance and acceptance, our common human need to define character and create an integrated self, breaking societal boundaries, or forgiveness and redemption.

#### **PEACE & CONFLICT STUDIES**

Grade: 11-12 .50 Credit
Prerequisite: None E1204

Students in English E1204 will study how conflict and peace act as driving forces in both literature and society. Students will read texts that demonstrate both the causes of conflict, and the ways in which peacemakers work toward the cause of justice using nonviolent action as their primary tool. Based on their reading of a variety of both short and longer works of poetry, fiction, and nonfiction, and by studying aspects of war, conflict, the origins of inequality and injustice, and the tenants of peace, students will identify the impact individuals can have on the world around them. Further, in the enactment of their daily roles and responsibilities, students will strive towards becoming active peacemakers and work to bring peace not only to their daily lives, but also to their broader communities.

## WRITING COMPOSITION, STYLE & TECHNIQUES

Grades 11-12 .50 Credit
Prerequisite: None E1104

Writing Composition, Style, and Techniques is a one-semester course designed for juniors and seniors to refine and enhance their writing skills. The students practice the skills necessary for writing effectively and knowledgeably in different subject areas by focusing on a variety of writing styles and techniques including expository and argumentative essays, literary analyses, personal essays, memoir writing, research writing, narrative, and poetry. This course is for all students interested in strengthening their writing skills.

#### **AP ENGLISH LITERATURE**

Grade: 12 1.00 Credit
Teacher Recommendation E1206AP

English E1206, AP English Literature, introduces students to many classic British and American works covered in introductory college literature classes. Students read a broad spectrum of literature from all genres, learn to interpret and critically analyze what they read, and enhance their interpretations by studying professional literary criticism related to the assigned works. Students electing AP English Literature should write well, have an interest in studying great literature, and a strong commitment to hard work. The recommendation of the teacher is recommended. Students in this class will be prepared to take the College Board Advanced Placement English Literature examination in May.

#### **AMERICAN LITERATURE**

Grade: 11-12 .50 Credit
Teacher Recommendation E1102

English E1102 delves into how the American Identity is different for more marginalized peoples. The course will utilize books clubs, poetry, short fiction, and close reading to examine the literature of Native American, African American, Naturalized American, LatinX American, and other marginalized groups in American society through analysis of their writing and cultural impact on American life.

#### **CONTEMPORARY ISSUES IN FICTION**

Grade: 11-12 .50 Credit
Prerequisite: English 1101 E1203

In English E1203, students read a variety of texts, evaluating each piece for its literary elements, artistic merit, and common themes, exploring the relationships of individuals to the societies in which they must exist. These themes may include coming of age, tolerance, and acceptance, our common human need to define character and create an integrated self, breaking societal boundaries, or forgiveness and redemption. Students will read four or five shared texts over the course of the semester, while also supplementing with texts of their choice that explore similar issues. They will also read a variety of articles, poems, and short fiction to supplement their knowledge of the themes and topics of the core materials.

## AP ENGLISH LANGUAGE & COMPOSITION

Grades 11 1 Credit
Prerequisite: None E1103AP

AP English Language students will learn the skills necessary to succeed in university-level courses and on the AP Language and Composition exam, skills such as close reading of nonfiction writing, analyzing writing for rhetoric and skillful use of language, synthesizing numerous texts into coherent arguments, and writing sophisticated analytical and persuasive essays. Each of these skills will prepare students for the intense reading and writing demands they will experience in college. Because a key aspect of college-level learning is critical inquiry into our lives - examining the aspects of our world we take for granted, ignore, or understand only superficially - this course will train students to think, read, and write critically, creatively, and persuasively. This course will combine our study of rhetoric and composition with an analysis of literature, so we will supplement our nonfiction reading with fiction, drama, and poetry.







## FAMILY & CONSUMER SCIENCES

Family and Consumer Sciences is an educational discipline based on the family and the relationship between work and the family. Bolton High School's family and consumer sciences education program empowers people to effectively manage emerging life issues by applying skills, analyzing options, and strengthening interpersonal competencies through an interrelated curriculum. Participation in the program enables students to develop skills to manage their own personal, family, and career lives, and develop insights into the interaction within families and the relationship of work and family. Family and consumer sciences education apply academic learning to hands-on application.

Bolton High School's Family and Consumer Sciences program prepares students for family life, work-life, and careers in family and consumer sciences by providing opportunities to develop the knowledge, skills, attitudes, and behaviors needed for:

- strengthening the well-being of individuals and families across the lifespan;
- becoming responsible citizens and leaders in family, community, and work settings;
- promoting optimal nutrition and wellness across the lifespan;
- managing resources to meet the material needs of individuals and families;
- balancing personal, home, family, and work lives;
- using critical and creative thinking skills to address problems in diverse family, community, and work environments;
- successful life management, employment, and career development;
- functioning effectively as providers and consumers of goods and services; and appreciating human worth and accepting responsibility for one's actions and success in family and work life.

Curricula are aligned with the Family and Consumer Sciences National Standards and Connecticut Career & Technical Education competencies.

#### **Department Staff**

Christopher Jones

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	COURSE OFFERINGS		
FC901	Introduction to Culinary	Grade 9-12	.50 CR
FC902	Food for Life	Grade 9-12	.50 CR
FC1001	Culinary I	Grade 10-12	.50 CR
FC1102	Bakeshop (full year)	Grades 10-12	1.00 CR
FC1003	International Foods	Grade 11-12	.50 CR
FC903	Child Development (semester 1)	Grades 9-12	.50 CR
FC904	Parenting (semester 2)	Grade 9-12	.50 CR

#### INTRODUCTION TO CULINARY

Grade: 9-12 .50 Credit
Prerequisite: None FC901

This course emphasizes the study of nutrition as it relates to basic food preparation and diet. Students will have the opportunity to plan, prepare, and serve meals that meet individual nutritional needs. The student's role as a consumer will also be part of this course.

#### **FOOD FOR LIFE**

Grade: 9-12 .50 Credit
Prerequisite: FC901 FC902

This course will take basic food preparation to a different level. Students will use the skills attained in Introduction to Culinary to prepare foods for specific dietary needs. Students will also investigate foods from various regions of the United States and discover their origins.

#### **CULINARY I**

Grade: 10-12 .50 Credit
Prerequisite: None FC1001

Culinary I is designed to provide students information about food and nutrition that they can use every day. This practical, up-to-date course focuses on the latest dietary advice to help students make healthful food choices. The course includes basic food preparation, with an emphasis on nutritional awareness in planning and preparing quick and easy meals. Other topics include buying and storing food, food industry careers, and consumer decisions.

#### **INTERNATIONAL FOODS**

Grade: 11-12
Prerequisite: FC901, FC1001, or instructor's permission

.50 Credit FC1003

This course studies lifestyles in selected countries and the effect of culture on food consumption and preparation methods. It explores the influence of ethnic cookery on American eating habits. There is opportunity to prepare and taste a variety of foods from diverse cultures.



#### **BAKESHOP**

Grade: 10-12 1.00 Credit Prerequisite: FC901 or FC1001 FC1102

Breads and pastries of many nations will be included in a survey of types and methods of bread and pastry preparation. This course will concentrate on the production and quality control of baked goods that are used in hotels and restaurants. Emphasis will be on the preparation of recipes (yeast products, quick breads, cakes, and pastries). Quantity food preparation equipment and methods of baking will be used.

#### **PARENTING (SEMESTER 2)**

Grade: 9-12 .50 Credit Prerequisite: FC903 FC904

Parenting is a course designed to help students learn what the demands of parenting. Students will analyze expectations, roles, and the responsibilities of parenting. Additionally, students will obtain skills needed to care for and guide children through their growth and development.

#### **CHILD DEVELOPMENT (SEMESTER 1)**

Grade: 9-12 .50 Credit
Prerequisite: none FC903

Child Development is a course designed to provide students with information and skills that relate to the growth and development of children. Students will study physical, emotional, social, and intellectual growth during childhood. Additionally, students will investigate the impact of heredity and environment on human growth and development during childhood.

## **MATHEMATICS**

A variety of mathematical courses are offered at Bolton High School ensuring that the Bolton High School graduate is mathematically literate and is able to think and utilize the foundational principles of logic. The courses emphasize standards including number and quantity, algebra, functions, modeling, geometry, statistics, and probability.

	COURSE OFFERINGS	
MA901	Algebra I Foundations	1.00 CR
MA902	Algebra I	1.00 CR
MA903	Numerical Geometry	1.00 CR
MA904	Geometry	1.00 CR
MA905H	Geometry Honors	1.00 CR
MA1001	Algebra II Foundations	1.00 CR
MA1002	Algebra II	1.00 CR
MA1003H	Algebra II Honors	1.00 CR
MA1004	Elective - Probability & Statistics	.50 CR
MA1104	Pre-Calculus	1.00 CR
MA1105H	Pre-Calculus Honors	1.00 CR
MA1206ECE	ECE UConn Discrete Math	.50 CR
MA1101	Elective - Contemporary Math	.50 CR
MA1202H	ECE UConn Calculus I	.50 CR
MA1204AP/ MA1205ECE	AP/ECE UConn Statistics	1.00 CR
MA1105AP	AP Computer Science Principles	1.00 CR

#### **Department Staff**

Emily Bradley Jordan Richard Baljinder Singh Katelyn Werner ebradley@boltonct.org jrichard@boltonct.org bsingh@boltonct.org kwerner@boltonct.org The following is a flowchart of **possible** course selections over four years; however, there are many other possibilities for students as they progress through high school. Math teachers and School Counselors will discuss math options each year with students.

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Geometry Honors	Algebra II Honors	Pre-Calculus Honors and/or AP/ECE Stats	ECE UConn Calculus, ECE UConn Discrete Math, AP Computer Science Principles AP/ECE UConn Statistics, or Honors Statistics
Geometry Honors	Algebra II	Pre-Calculus	ECE UConn Calculus, ECE UConn Discrete Math AP Computer Science Principles AP/ECE UConn Statistics, Honors Statistics, Math Electives
Algebra I	Geometry	Algebra II	Pre-Calculus, Math Electives
Algebra I	Geometry	Algebra II Foundations	Math Electives
Algebra I Foundations	Numerical Geometry	Algebra II Foundations	Math Electives

#### **ALGEBRA I FOUNDATIONS**

Prerequisite: Teacher Recommendation

1.00 Credit MA901

Algebra I Foundations is a full-year course that will provide the fundamental Algebra skills for students who may require them. Students will explore linear equalities and inequalities, statistics, probability, and number representations. Students will proceed to Numerical Geometry and then to Algebra II Foundations.

#### **ALGEBRA I**

Prerequisite: None

1.00 Credit MA902

Algebra I is a structured course in elementary algebra with emphasis on the real number system. Students learn the manipulation of algebraic expressions, equations, and inequalities to model and then solve real-world problems. Students are required to provide their own TI 30XS scientific calculator or TI 84+ graphing calculator.

#### **NUMERICAL GEOMETRY**

Prerequisite: MA901 or MA902 AND Teacher Recommendation

1.00 Credit MA903

Numerical Geometry is a modern treatment of Euclidean geometry. In this course, students will learn to use logic and reasoning to solve geometric problems at a slower pace. Students will learn to apply theorems, postulates, and definitions to solve "real-world" problems. Topics will include parallel lines and planes, showing congruence and similarity for triangles and various polygons, and an introduction to right triangles and the trigonometric functions. Students are required to provide their own TI 30XS scientific calculator or TI 84+ graphing calculator.

#### **GEOMETRY**

Prerequisite: Algebra 1 1.00 Credit MA904

Geometry is a modern treatment of Euclidean geometry. Students learn postulates, definitions, and formal theorems. Problem-solving skills and logical thought processes will be developed and incorporated through the use of various styles of proofs and applications to solve real-world problems. Topics will include parallel lines and planes, showing congruence and similarity for triangles, quadrilaterals and various polygons, and an introduction to the trigonometric ratios.

Students are required to provide their own TI 30XS scientific calculator or TI 84+ graphing calculator.

#### **GEOMETRY HONORS**

Prerequisite: Algebra 1 & Teacher 1.00 Credit Recommendation MA905H

The Honors Geometry course is for the exceptional math student who wants to explore the theories of geometry in great depth. Topics include parallel and perpendicular lines and planes, finding congruence and similarity for triangles, quadrilaterals and other polygons, areas, and volumes of solids, and coordinate geometry. Proofs will be explored at a deeper level in this course. Problem-solving skills and logical thought processes will be developed and incorporated through the use of various styles of proofs and applications to solve "real world" problems. Students are required to provide their own TI 30XS scientific calculator or TI 84+ graphing calculator.

#### **ALGEBRA II FOUNDATIONS**

Prerequisite: MA902 or MA901; MA903 1.00 Credit and Teacher Recommendation MA1001

In this course, students build upon and explore topics that were learned in Algebra I, but with greater depth. Graphing calculators are required and fully integrated into the course. This course is not for those Algebra II students planning on taking Pre-Calculus or Pre-Calculus Honors.

#### **ALGEBRA II**

Prerequisite: MA902 or MA901; MA903 or 1.00 Credit MA904 & Teacher Recommendation MA1002

In this course, students cover topics that were learned in Algebra I, but with increased depth. Students will also learn about exponential and quadratic functions, graphing polynomials, and complex numbers. This course is essential for any advanced studies in math.

#### **ALGEBRA II HONORS**

Prerequisite: Teacher Recommendation

1.00 Credit MA1003H

The Honors Algebra II course is for the exceptional mathematics student. In addition to a review of Algebra I, topics covered include exponential, logarithmic, and quadratic functions, graphing, and complex numbers. All topics are covered in greater depth than in a regular Algebra II course. Algebra II Honors is recommended for students who will be taking Pre-Calculus and Calculus.

#### **PROBABILITY & STATISTICS**

Prerequisite: MA902 .50 Credit MA1004

Probability and Statistics is a course where students discover the major concepts and acquire the tools for collecting, analyzing, and drawing conclusions from data. This course is designed to help prepare students for real-world application and aligned with the Data Analysis portion of the SAT. Students who complete this course could further their understanding by enrolling in AP Statistics.

Humanities

#### **PRE-CALCULUS**

Prerequisite: MA904 or MA905H; MA1002 1.00 Credit or MA1003H MA1104

Pre-Calculus is designed as a preparation for Calculus and other college level mathematics courses. Students learn trigonometry and other topics. If students are planning to pursue a math, science, engineering or business curriculum at the college level, this course is suggested.

#### **PRE-CALCULUS HONORS**

Prerequisite: MA904 or MA905H; MA1002 1.00 Credit or MA1003H & Teacher Recommendation MA1105H

Pre-Calculus Honors is designed as a preparation for Calculus and other college level mathematics courses. Students learn trigonometry, analytical geometry, vectors, limits, and continuity. If students are planning to pursue a math, science, engineering or business curriculum at the college level, this course is suggested. It is the third course in the honors mathematics sequence.

#### **CONTEMPORARY MATH**

Prerequisite: MA902, MA1001 or permission .50 Credit from Math Department MA1101

This half-year course is designed for students with a liberal arts focus. Topics include, but are not limited to, elementary probability and statistics, logic, set theory, voting theory, graph theory, finance, number representations, and networking. This course can be paired with another semester course Personal Finance.

#### **ECE UCONN CALCULUS I**

Prerequisite: "C" average or better in .50 Credit MA1104 or MA1105H; permission from math MA1201H department

UConn Calculus I is a fall half-year course designed to provide students an introduction to college-level Calculus studies. If students are planning to pursue a science or business course of studies at the college level, this course will be a good foundation from which to build. A Texas Instruments TI 84+ graphing calculator is required and is integrated into the coursework. This course was formerly known as "Honor Calculus". Students must apply to the UConn Early College Experience Program to receive UConn Math 1131Q credit (4 credits).

#### **AP/ECE UCONN STATISTICS**

Prerequisite: "B+" average or better in MA1003H or permission of the math department

1.00 Credit MA1204AP/ MA1205ECE

The ECE/AP Statistics course is a full year, rigorous course equivalent to a one-semester, introductory, non-calculus-based college course. The purpose of this course is to introduce students to the study of data. Students will learn how to collect, organize, analyze, and draw conclusions from data. A Texas Instruments TI 84+ graphing calculator is required and is integrated into the coursework. Students in this class will be prepared to take the College Board Advanced Placement Statistics examination in May.

Alternatively, students may apply to the UConn Early College Experience program to receive UConn STAT 1100Q credit (4 credits) upon successful completion of the course and final exam.

## ECE UCONN ELEMENTARY DISCRETE MATHEMATICS

Prerequisite: "B+" average or better in .5 MA1003H or permission of the math department N

.50 Credit MA1204AP/ MA1205ECE

This course will stress problem solving skills and the development of reasoning skills in an interactive setting. The mathematics involved is not overtly difficult but is likely different than the work to which you are accustomed. We will see how the mathematical ideas presented in the course have very real and useful applications to the world around us. Topics we will cover include counting and probability, sequences, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems, voting methods, apportionment methods, mathematics of finance, and number theory.

#### **AP COMPUTER SCIENCE PRINCIPLES**

Prerequisite: successful completion of 1.00 Credit MA1002or MA1003H MA1005AP

The purpose of this course is to introduce students to the study of data. The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines. Students will investigate topics related to the Internet: what it is, how it is built and functions, how it scales, cybersecurity, etc. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. Students will work individually and collaboratively to solve problems and discuss and write about the importance of these problems and their impacts on the community, society and the world. Students will take the AP Computer Science Principles Exam, as well as submit two performance tasks (Create and Explore) to the College Board.

## MUSIC

The Bolton High School Music Department provides musical learning opportunities for all students at BHS. Our general music classes are open to all students regardless of musical background. They include Guitar Performance I, Guitar Performance II, Music Technology I, and Music Technology II. Students interested in vocal and instrumental performance may choose from a number of opportunities including Concert Choir, Concert Band, Jazz Band, small ensembles, auditioned regional ensembles, and other performance opportunities that vary from year to year based on student interest. Students wishing to study music in depth may choose Advanced Placement Music Theory.

Music curriculum is guided by the National Core Arts Standards, focusing on creating, performing, responding, and connecting within a musical context.

COURSE OFFERINGS			
MU901	Concert Band	Grade 9-12 1.00 CR	
MU902H	Concert Band Honors	Grade 9-12 1.00 CR	
MU903	Concert Choir	Grade 9-12 1.00 CR	
MU904H	Concert Choir Honors	Grade 9-12 1.00 CR	
MU906	Music Technology I	Grade 9-12 .50 CR	
MU907	Music Technology II	Grades 9-12 .50 CR	
MU908	Guitar Performance I	Grade 9-12 .50 CR	
MU909	Guitar Performance II	Grades 9-12 .50 CR	
MU920	Concert Band - Percussion	Grade 9-12 1.00 CR	
MU921H	Concert Band - Percussion Honors	Grades 9-12 1.00 CR	

#### **Department Staff**

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#### **CONCERT BAND**

Grade: 9-12

Prerequisite: ability to play a woodwind, MU901
brass, or percussion instrument at an intermediate grade level or permission from the instructor

Concert Band provides its student participants with the opportunity to study and perform challenging, advanced literature of many diverse genres and to prepare programs for school functions and public performance. Students are encouraged to assume leadership roles as student directors, section leaders, and in organizational planning. Student members are also encouraged to study privately and perform in other instrumental ensembles outside of school. Outside musical opportunities include chamber music experiences, the NCCC Music Festival, the Eastern Region High School Music Festival, and the Connecticut All-State Music Festival. *In addition to* the class meeting times, Concert Band members are required to attend two to four evening rehearsals in the weeks immediately preceding each concert.

#### **CONCERT BAND HONORS**

Grade: 9-12

1.00 Credit
Prerequisite: ability to play a woodwind, MU902H
brass, or percussion instrument at an
advanced grade level and written
consent from the instructor

Honors level Band is designed to provide for and reward advanced students through their participation in musical enrichment activities. Students must apply with the instructor for honors level credit. In addition to meeting and exceeding all standards of Concert Band, honor students are required to fulfill additional criteria each semester. These criteria are listed and explained on the application required to take this honors level course. Applications are available at the beginning of the school year. *In addition to the class meeting* times, Honors Concert Band members are required to attend two to four evening rehearsals in the weeks immediately preceding each concert. Several of the additional criteria require time outside of the regular class meetings.

#### **CONCERT CHOIR**

Grade: 9-12 1.00 Credit MU903

Concert Choir provides student participants with the opportunity to continue vocal training through the development of music reading and the study and performance of culturally diverse literature. Course requirements include preparing programs for performance in the school, community and beyond. Students may assume leadership roles as student directors and section leaders. Students are also encouraged to study privately and perform in other vocal ensembles outside of school on a regular basis. Outside opportunities for performance include the following festivals: NCCC Music Festival, Eastern Region High School Music Festival, and the Connecticut All State Music Festival. *In addition to the class meeting times, Concert Choir members are required to attend two to four evening rehearsals in the weeks immediately preceding each concert.* 

#### **CONCERT CHOIR HONORS**

Grade: 9-12

1.00 Credit MU904H

Honors level Concert Choir is designed to provide for and reward advanced students through their participation in musical enrichment activities. Students must apply with the instructor for honors level credit. In addition to meeting and exceeding all standards of the Concert Choir, honor students are required to fulfill additional criteria each semester. These criteria are listed and explained on the application required to take this honors level course. Applications are available at the beginning of the school year. *In addition to the class meeting* times, Concert Choir members are required to attend two to four night rehearsals in the weeks immediately preceding each concert. Several of the additional criteria require time outside of the <u>regular class meetings.</u>

#### **MUSIC TECHNOLOGY I**

Grade: 9-12 .50 Credit

MU906

Music Technology Production I is an introductory, one-semester course taught in BHS's computer music MIDI lab. Students will use the latest digital music technology and computer workstations to learn the basics of creating, composing, recording, editing, and mastering music. Students will learn basic music concepts through tutorial challenges and larger comprehensive projects.

#### **MUSIC TECHNOLOGY II**

.50 Credit Grade: 9-12 Prerequisite: MU906 MU907

Music Technology Production II is a semester course taught in BHS's MIDI computer lab. Students must successfully complete Music Technology I prior to enrolling in this class. The course focuses on advanced editing techniques used in modern song and music production. Students continue to learn and develop composition and production techniques, as well as study the use of music in films. Students will be responsible for producing a song from start to finish prior to the end of the semester.

#### **GUITAR PERFORMANCE I**

Grade: 9-12 .50 Credit Prerequisite: MU906 MU908

Guitar Performance I is an introductory one semester course open to all students interested in learning to play the guitar. Students do not need any prior musical knowledge and/or experience. Students with guitar experience are also welcome. Students will master basic music concepts through guitar performance including note reading, tablature notation, melodic concepts, chord performance and blues improvisation. Students in the class will be issued and responsible for a school owned guitar.

#### **GUITAR PERFORMANCE II**

Grade: 9-12 .50 Credit Prerequisite: MU908 or equivalent MU909 experience

Guitar Performance I is an introductory one semester course open to all students interested in learning to play the guitar. Students do not need any prior musical knowledge and/or experience. Students with guitar experience are also welcome. Students will master basic music concepts through guitar performance including note reading, tablature notation, melodic concepts,

chord performance and blues improvisation. Students in the class will be issued and responsible for a school owned guitar.

#### **CONCERT BAND - PERCUSSION**

1.00 Credit Prerequisite: ability to play a percussion MU920 instrument at an intermediate level or permission from the instructor

Concert Band - Percussion provides its student participants with the opportunity to study and perform challenging, advanced concert band and percussion ensemble literature of many diverse genres and to prepare programs for school functions and public performance. Students will have the opportunity to study percussion in depth through individual and ensemble focus while also performing concert band literature. Students are encouraged to assume leadership roles as student directors, section leaders, and in organizational planning. Student members are also encouraged to study privately and perform in other instrumental ensembles outside of school. Outside musical opportunities include chamber music experiences, the NCCC Music Festival, the Eastern Region High School Music Festival, and the Connecticut All State Music Festival. In addition to the class meeting times, Concert Band -<u>Percussion members are required to attend two</u> to four evening rehearsals in the weeks immediately preceding each concert.

#### **CONCERT BAND - PERCUSSION HONORS**

1.00 Credit Grade: 9-12 Prerequisite: ability to play a percussion MU921H instrument at an intermediate level or permission from the instructor

Honors level percussion is designed to provide for and reward advanced students through their participation in musical enrichment activities. Students must apply with the instructor for honors-level credit. In addition to meeting and exceeding all standards of Concert Band -Percussion, honor students are required to fulfill additional criteria each semester. These criteria are listed and explained on the application required to take this honors level course. In addition to the class meeting times, Concert Band - Percussion members are required to attend two to four evening rehearsals in the weeks immediately preceding each concert.

# PHYSICAL EDUCATION/ WELLNESS & HEALTH/SAFETY EDUCATION

The Bolton High School graduate demonstrates and recognizes the principles of wellness and physical fitness. Courses in this Department are designed to assist students in meeting the Health/Physical Education Portfolio graduation requirement. Each student completes all of the items of the four-year portfolio in Physical Education and Health Education courses. In order to meet this requirement, each student accomplishes all of the following:

- develops an annual fitness plan;
- completes a health and wellness personal assessment;
- develops and meets an annual personal fitness goal;
- completes a Bolton High School fitness chart;
- participates in the Connecticut Physical Fitness Test;
- designs a health success plan which promotes lifelong wellness;
- obtains certification in adult and child CPR and AED.

	COURSE OFFERINGS		
P901	Physical Education/Health	Grade 9	1.00 CR
P1001	Physical Education/Health	Grade 10	1.00 CR
P1101/P1102	Electives - Lifetime Sports I/Lifetime Sports II	Grade 11-12	.50 CR
P903	Elective - Unified Physical Education	Grade 11-12	.50 CR

#### **Department Staff**

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## PHYSICAL EDUCATION/HEALTH GR. 9 PHYSICAL EDUCATION/HEALTH GR. 10

Grade: 9-10 1.00 Credit Physical Education & Health Education P901/P1001 is required for all students at BHS in grades 9 & 10.

The Bolton Public Schools Physical Education and Health program is designed to provide students with in-depth knowledge of physical principles while offering experiences in a variety of activities. Students are given opportunities to develop physical skills, social skills, and life-long values while learning the health benefits associated with participating in team and individual sports. Our program prepares students with information and strategies to deal with social, peer, and environmental pressures. Health-related content is integrated throughout the curriculum ensuring students are taught the skills to make informed, appropriate and healthful choices for a healthy and productive life.

## LIFETIME SPORTS I

Grade: 11-12 .50 Credit P1101/P1102

The Junior and Senior program provides activities that emphasize individual, leisure, and lifetime activities. Students will learn the necessary skills, rules, and strategies of the game/sport that will allow the student to gain a better understanding and appreciation for the activity.

#### **UNIFIED PHYSICAL EDUCATION**

Grade: 11-12 .50 Credit
Prerequisite: Teacher Recommendation P903

Unified Physical Education is a specialized program that is designed to pair model general education students with students with disabilities to work in a one-on-one physical education setting. This course emphasizes cooperation, problem-solving, and forming peer relationships. This course is open to upperclassmen (model students in grades 11 & 12) with teacher recommendation.



## **SCIENCE**

A variety of science courses are offered at Bolton High School, ensuring that the Bolton High School graduate is scientifically literate in Biological, Earth, and Physical Sciences. Courses emphasize inquiry, problem-solving, data analysis, and real-world application of scientific principles while exploring the cross-cutting themes of stability and change, structure and function, energy and matter, systems and system models, evolution, cause and effect, and patterns in nature.

COURSE OFFERINGS			
SC901	Science 9	Grade 9	1.00 CR
SC902H	Science 9 - Honors	Grade 9	1.00 CR
SC1001	Biology	Grade 10	1.00 CR
SC1002H	Biology - Honors	Grade 10	1.00 CR
SC1101	Chemistry	Grades 11-12	1.00 CR
SC1102H	Chemistry - Honors	Grades 11-12	1.00 CR
SC1103AP	AP Chemistry	Grades 11-12	1.00 CR
SC1106ECE	UConn Environmental Science	Grade 12	1.00 CR
SC1201	Physics - Honors	Grade 12	1.00 CR
SC1202AP	AP Biology (Double Block/2 Consecutive Periods)	Grade 12	1.50 CR
SC1103	Human Biology (semester)	Grades 11-12	.50 CR
SC1105	Ecology	Grades 11-12	1.00 CR

#### **Department Staff**

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## **SCIENCE 9**

Grade: 9 1.00 Credit Prerequisite: None SC901

Students in Science 9 develop skills used by scientists and engineers through the study of the physical and geological forces that govern many of Earth's systems. Major topics include planetary science and Earth's place in our solar system, plate tectonics and the continuous changes of the Earth's surface, climatology and sources of evidence for a dynamic atmosphere, and contemporary techniques to best manage natural resources and wastes. Science 9 is not designed to meet college laboratory science requirements.

## **SCIENCE 9 HONORS**

Grade: 9 1.00 Credit
Prerequisite: Teacher Recommendation SC902H

Students in Honors Science 9 develop skills used by scientists and engineers through the study of the physical and geological forces that govern many of Earth's systems. Major topics include planetary science and Earth's place in our solar system, plate tectonics and the continuous changes of the Earth's surface, climatology and sources of evidence for a dynamic atmosphere, and contemporary techniques to best manage natural resources and wastes. Students in Honors Science 9 more frequently analyze scientific data and complex reports. Students most successful in this course are those with a strong background in reading and writing, and those that are comfortable understanding algebraic equations and graphs. Honors Science 9 is not designed to meet college laboratory science requirements.

## **BIOLOGY**

Grade: 10 1.00 Credit Prerequisite: SC901 SC1001

Biology explores a variety of life science topics including matter and energy in organisms and ecosystems, the inheritance and variation of traits, interdependent relationships in ecosystems, natural selection, and evolution, and the structure and function of systems and organisms. The course includes inquiry-based laboratory work with a focus on science and engineering practices and the ongoing exploration of cross-cutting science concepts explored in previous science classes. *This course meets college preparation laboratory science requirements*.

### **BIOLOGY - HONORS**

Grade: 10 1.00 Credit
Prerequisite: Teacher Recommendation SC1002H

Honors Biology explores a variety of life science topics including matter and energy in organisms and ecosystems, the inheritance and variation of traits, interdependent relationships in ecosystems, natural selection, and evolution, and the structure and function of systems and organisms. The course includes inquiry-based laboratory work with a focus on science and engineering practices and the ongoing exploration of cross-cutting science concepts explored in previous science classes. Students will be expected to read contemporary scientific literature and research currently accepted biological theories. Successful Honors Biology students tend to have had a "B" average or better in their freshman science course and have a strong background in reading, writing, and mathematics. This course meets college preparation laboratory science requirements and prepares students for future work in AP Biology.

### **CHEMISTRY**

Grade: 11-12 1.00 Credit Prerequisite: SC901, SC902H SC1001

Chemistry is the study of the structure and properties of matter and how these materials react with one another. Students learn principles of chemistry including atomic structure, the properties of elements, the periodic table, chemical bonding, the kinetic theory of solids, liquids and gases, chemical formulas and equations, solutions, and the properties of acids and bases. Emphasis will be placed on the development of chemical laboratory skills and techniques. Successful Chemistry students tend to have had a "C" average or better in Honors Biology or Biology, and a "C" average or better in Algebra I. *This course meets college preparation laboratory science requirements*.

### **CHEMISTRY - HONORS**

Grade: 11-12 1.00 Credit
Prerequisite: Teacher Recommendation SC1002H

Honors Chemistry is the study of the structure and properties of matter and how these materials react with one another. Students learn principles of chemistry including atomic structure, electron behavior incorporating quantum mechanics, the chemical and physical properties of elements, the periodic table, chemical bonding, stoichiometry, the kinetic theory of solids, liquids and gases, chemical formulas and equations, chemical kinetics and rate of reactions, chemical equilibrium, and the properties of acids, bases and salts. Emphasis will be placed on the development of chemical laboratory skills and techniques. This course meets college preparation laboratory science requirements. Successful Honors Chemistry students tend to have had a "B" average or better in Honors Biology or Biology, and a "B" average or better in Algebra I.

### **AP CHEMISTRY**

Grade: 11-12

Prerequisite: Completion of an approved SC1103AP chemistry course or the completion of an alternate summer assignment/task as determined by the AP Chemistry instructor.

Bolton High School offers AP Chemistry to those students who have demonstrated exceptional skills and knowledge in science, or who have successfully completed a year of study in chemistry. AP Chemistry emphasizes moving students beyond formulaic algorithms and focusing instead on conceptual reasoning and deep understanding in order to develop a robust foundation for advanced studies in chemistry and other scientific disciplines. Students should be comfortable using pictorial representations, graphs, mathematics, and laboratory investigations to build knowledge and apply concepts to new situations. Students are expected to connect concepts in and across domains to generalize and extrapolate in and across enduring understandings and big ideas. At least 25 percent of instructional time is spent in hands-on laboratory experiences. Successful AP Chemistry students tend to have had an "A" average or better in Honors Science, and a "B" average or better in Algebra I. This course exceeds college preparatory laboratory science requirements and prepares students for success on the AP Chemistry exam administered by The College Board.

## **ECE UCONN ENVIRONMENTAL SCIENCE**

Grade: 11-12 1.00 Credit
Prerequisite: Teacher Recommendation SC1106ECE

UConn Environmental Science is an introduction to basic concepts and areas of environmental concerns and how these problems can be effectively addressed. Topics include human population, ecological principles, conservation of biological resources, biodiversity, croplandsrangelands-forestlands, soil and water conservation, population and water management, and wildlife and fisheries conservation. Outdoor local field experiences are a component of the course. Successful UConn Environmental Science students tend to have had a "B" average or better in Biology or Honors Biology. Upon completion of this course, students should be able to: demonstrate knowledge of natural systems and gain an understanding of major environmental problems at the local, state, and global level; demonstrate knowledge and appreciation of various components of natural resource conservation, and understand problem-solving strategies used to alleviate environmental problems. Students must apply to the UConn Early College Experience Program to receive UConn credit (3 credits). UConn Environmental Science is not designed to meet college laboratory science requirements.

## **HUMAN BIOLOGY**

Grade: 11-12 .50 Credit
Prerequisite: None SC1103

Human Biology is a seminar-style, one-semester course devoted to the investigation of the human body. Students will study the relationship between structure and function on all levels of organization in the human body. Topics studied may include nutrition, control, development, fitness, and disease. Emphasis is placed on hands-on and experiential learning. Human Biology is not designed to meet college laboratory science requirements.



Electives





## **ECOLOGY**

Grade: 11-12 1.00 Credit
Prerequisite: None SC1105

Ecology involves the study of the relationship between living things and their nonliving environment. Students will explore Earth systems, biomes, community interactions, and population ecology and growth during the first part of the course. Students will then apply their knowledge of ecological concepts as they learn about environmental problems such as climate change and pollution, at the local, national, and global levels. The final units of the course are dedicated to exploring conservation, sustainability, and solutions to today's environmental challenges. Outdoor local field experiences are a component of the course. *Ecology is not designed to meet college laboratory science requirements.* 

## **PHYSICS - HONORS**

Grade: 12 1.00 Credit
Prerequisite: Completion or enrollment SC1201
in MA1104 or MA1105H

Physics is an investigation into the behavior and interrelationships of matter and energy. Basic concepts of measurement, motion, force, light, sound, energy, matter, electricity and atomic physics are developed and applied. Formal laboratory investigations are utilized to apply various concepts of physics. Physics is an honors level course and meets college preparation laboratory science requirements.

## **AP BIOLOGY**

Grade: 12 1.50 Credit
Prerequisite: Students are to successfully
complete a chemistry course and
MA1002/MA1003H before enrolling

AP Biology is equivalent to a two-semester college introductory biology course and is designed for motivated students with superior scholastic records in mathematics and science. The course follows the curriculum framework outlined by The College Board. Studies focus on the interactions of biological systems, the use of energy and molecular building blocks by biological systems, evolution, and the transmission, retrieval, and storage of information. Lab experiences are inquiry-based and involve the use of statistical analysis, various mathematical applications, model representations, and the connection of concepts across multiple domains. Successful AP students tend to have had a "B" average or better in "B" average or better in Biology, Chemistry, and Algebra II. This course exceeds college preparatory laboratory science requirements and prepares students for success on the AP Biology exam administered by The College Board.









## **SOCIAL STUDIES**

In accordance with the National Council for the Social Studies' standards, the Bolton High School Social Studies department prepares students for success in college and career and informed engagement and participation in civic life. Inquiry is at the heart of Social Studies instruction and involves interdisciplinary instruction and benefits from interaction with and integration of the arts and humanities. Social Studies teachers promote the teaching of deep and enduring understandings, concepts, and skills from the disciplines of history, civics, economics, psychology, and sociology.

COURSE OFFERINGS					
SS901	World History & Cultures I	Grade 9	1.00 CR		
SS902H	World History & Cultures I - Honors	Grade 9	1.00 CR		
SS1001	World History & Cultures II	Grade 10	1.00 CR		
SS1002H	World History & Cultures II - Honors	Grade 10	1.00 CR		
SS1103AP	AP United States History	Grade 11	1.00 CR		
SS1102	United States History	Grade 11	1.00 CR		
SS1101	United States History Perspectives	Grade 11	1.00 CR		
SS1203	Psychology	Grade 12	1.00 CR		
SS1202	Economics	Grade 11-12	.50 CR		
SS1204	Contemporary Issues	Grade 11-12	.50 CR		
SS1205	Sociology	Grade 12	.50 CR		
SS1201	Civics	Grade 12	.50 CR		
SS1106	African American/Black & Puerto Rican/Latino Studies	Grade 11-12	1.00 CR		

## **Department Staff**

Alan Hefferon Mark Mishriky Abbey Sacco Paul Smith ahefferon@boltonct.org mmishriky@boltonct.org asacco@boltonct.org psmith@boltonct.org

## **WORLD HISTORY & CULTURES I WORLD HISTORY & CULTURES I HONORS**

Grade: 9 1.00 Credit SS901/SS902H Prerequisite: None

This course will examine the rise of the modern world beginning with the Renaissance and Reformation in Europe and the intellectual traditions unleashed by these events. The rise of modern capitalism, the roots of representative democracy, the foundations for technology and industrialization, and the roots of communist thought, can all trace their heritage to the intellectual currents of thought emerging in fifteenth, sixteenth, and seventeenth-century Europe. These ideas would spread around and come to dominate the globe as Western powers would control most of the world by the middle of the nineteenth century. In accordance with the Social Studies Department mission, this course will prepare students for success in college and career, informed engagement, and participation in civic life. Inquiry and research skills will be at the heart of instruction in World History and Cultures I.

## **WORLD HISTORY & CULTURES II WORLD HISTORY & CULTURES II HONORS**

1.00 Credit Grade: 10 Prerequisite: SS901/SS902H SS1001/SS1002H

This course will examine major themes in world history from the Age of New Imperialism (1871) to the modern-day. Major themes of the course include the focus on the Western dominance of global politics and economics through the two World Wars, as well as the rise of modern societies in Asia, Africa, and South America. Central to the theme is the rise of totalitarian governments in Europe and how this affects the politics, economics, and societies in every corner of the globe. A concurrent theme throughout the entirety of the course is genocide in the 20th century. The course culminates with a student chosen research paper from the Cold War era.

## **AP UNITED STATES HISTORY**

1.00 Credit Grade: 10 Prerequisite: SS1001/SS1002H SS1003AP

This course is a rigorous, full-year, college-level survey course in United States history. The course requires extensive reading and analysis of primary and secondary source materials and historical novels. Students will be expected to master large amounts of historical material and

historical novels. Students will be expected to master large amounts of historical material and demonstrate their understanding of the material through class discussions and analytical writing assignments. The course examines the entire scope of United States history from European settlement in the sixteenth century to the present. Students are typically successful who have had excellent grades in previous social studies courses and teacher recommendations. Students in this class will be prepared to take the College Board Advanced Placement United States History examination in May.

## **UNITED STATES HISTORY**

Grade: 11 1.00 Credit Required Course (or AP) SS1102

United States history explores the major issues that affect our nation today by examining the origin and evolution of those issues. The course begins with the Industrial Revolution in the latter third of the nineteenth century and then explores American history in-depth from the late nineteenth century to the late twentieth century, covering all aspects of social, political, economic, intellectual, and cultural history. United States History (or AP United States History) is a required full-year course for all students.

## **UNITED STATES HISTORY PERSPECTIVES**

Grade: 11 1.00 Credit Prerequisite: Teacher Recommendation SS1101

This course takes a non-traditional approach to the study of United States history. Students will focus upon producing projects and assignments on specific historical topics of their choosing in order to stimulate student interest. The course focuses primarily upon twentieth-century historical events to heighten historical relevance to students' lives.

## **ECONOMICS**

Grade: 11-12 .50 Credit Prerequisite: None SS1202

This course examines basic economic laws, different types of business organizations, and the role of government in the economy. Special emphasis is placed on current economic issues in society, using practical economics on a daily basis, and the problems created due to scarcity of resources in an economy. This semester course is open to all 11th and 12th-grade students.

Electives

## **AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES**

Grade: 11-12 1.00 Credit Prerequisite: US History SS1106

This course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the US. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build US cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time, strengthen their own identity development, and address bias in their communities.

### **PSYCHOLOGY**

.50 Credit Grade: 12 SS1203 Prerequisite: None

This course examines the study of psychology by analyzing humans' behaviors and cognitive processes. Students explore various aspects of our psyches and how our minds operate. Special attention will be given to people of note in the world of psychology, studying the working mind and body, and how the psychological and biological components of the mind interact. In the course, students will evaluate several aspects of the study of psychology; with a focus on the human lifespan, the process of learning, and the diagnosis and treatment of psychological disorders. This semester course is open to all 12th-grade students.

## **CONTEMPORARY ISSUES**

.50 Credit Grade: 11-12 Prerequisite: None SS1204

The purpose of this semester course is to encourage students to accept responsibility for becoming informed, concerned, and active citizens. The course examines current events at the domestic and foreign levels. Special emphasis is placed on issues that relate directly to teenagers who are about to graduate from high school. This semester course is open to all 11th and 12th-grade students.

## **CIVICS**

Grade: 12 .50 Credit Prerequisite: None SS1201

Civics focuses on the structure and operation of our national, state, and local governments. The course closely examines the creation and subsequent interpretation of the United States Constitution in order to explore the structure of our government and our rights protected by the Constitution. The course then focuses on state and local government in Connecticut, emphasizing the rights and responsibilities of citizens both locally and nationally. Civics is a required half-year course for all students unless enrolled in AP US Government.

## SOCIOLOGY

Grade: 12 .50 Credit SS1205 Prerequisite: None

This course covers a variety of social issues and problems as they relate to American society. Particular emphasis is placed on family structure, peer relationships, and the problems associated with family roles. Teenage issues and the problems of drug use, sexual activity, and suicide are examined and discussed. The course also examines the issues of minorities and discrimination, poverty, crime, and deviant behavior. This semester course is open to all 12th-grade students.



# TECHNOLOGY EDUCATION

In today's society, technology is constantly evolving and becoming more relevant to everyday life. Technology education allows students to gain the necessary knowledge in various areas of study, to be successful in the classroom and in society.

Through project-based learning, students utilize our facility to gain mastery in their area of study. Each unit and project is formatted in the real-world application of the principles and standards taught within that unit. Students will think critically as they work to design, construct and troubleshoot a wide variety of projects in each course. Technology Education prepares students to:

- increase skill-set using a wide range of technologies associated with engineering, manufacturing, and design;
- develop problem-solving skills necessary for a technical career;
- develop the necessary vocabularies needed for the various areas of study;
- develop team-building skills;
- discuss upcoming technologies, their uses, practicality, and morals.

Curriculum is aligned with Connecticut Career & Technical Education standards, International Technology and Engineering Educators Association standards for technological literacy, and the Common Core Standards for English Language Arts.

COURSE OFFERINGS					
T901	Construction & Structures	Grade 9-12	.50 CR		
T902	Intro to Architecture & Construction	Grade 9-12	.50 CR		
T903	Architectural Design	Grade 9-12	.50 CR		
T1003	Computer Aided Design & Engineering	Grade 10-12	.50 CR		
T1001	Video Production & Multimedia	Grade 10-12	.50 CR		
T1002	Desktop Publishing & Graphic Design	Grade 10-12	.50 CR		
T1101	Computer Integrated Manufacturing I (CAM)	Grade 11-12	.50 CR		
T904	Robotics & Engineering	Grades 9-12	50 CR		

## **Department Staff**

Elia Antunes

eantunes@boltonct.org

### **CONSTRUCTION & STRUCTURES**

Grade: 9-12 .50 Credit
Prerequisite: None T901

Students will develop a broad range of real experiences in the construction trades. Included are: residential framing, plumbing, electrical, insulation, roofing, exterior, and interior fabrication.

## INTRODUCTION TO ARCHITECTURE & CONSTRUCTION

Grade: 9-12 .50 Credit
Prerequisite: None T902

This course explores the concepts of basic residential construction including building materials, methods, mathematics, and sequence of construction, and the reasons thereof. The course will also focus on the development of the skills that would relate to future homeownership and applicable trades. Emphasis will be placed on safety and critical thinking skills as related to proper tool use. The construction of a scale model building will be the culminating activity.

## **ARCHITECTURAL DESIGN**

Grade: 9-12 .50 Credit
Prerequisite: None T903

Students will learn the different architectural styles used in commercial housing today and apply those attributes to a design of their choice. Through these design principles and CAD software, students will develop numerous sets of plans for structural designs. Exploration of materials and construction techniques will provide understanding and appreciation throughout the process.

## COMPUTER AIDED DESIGN & ENGINEERING (CAD)

Grade: 10-12 .50 Credit
Prerequisite: None T1003

Students who select this course will gain a basic knowledge of computer-aided drafting. They will develop computer-generated engineering and architectural designs and technical drawing using computer-aided design software. This course is required by most college engineering or related technology programs.

## **VIDEO PRODUCTION & MULTIMEDIA**

Grade: 10-12 .50 Credit
Prerequisite: None T1001

This semester course introduces students to multimedia authoring to create interactive media

for presentation, World Wide Web, and interactive TV. Using authoring software, students develop real-world projects combining graphics, sound, video, and other media. Digital video news productions will also be created and edited for broadcast on local television stations.

## **DESKTOP PUBLISHING & GRAPHIC DESIGN**

Grade: 10-12 .50 Credit
Prerequisite: None T901

This semester course is an introduction to creating graphic publications using computer technology. Students learn to operate an image scanner and digital and video cameras. Using design principles, students will create, layout, and print publications using Microsoft Word, Adobe PageMaker, PhotoShop, and Illustrator software. Thermal transfer and vinyl sign making will be introduced.

## COMPUTER INTEGRATED MANUFACTURING (CAM)

Grade: 11-12 .50 Credit
Prerequisite: "B" or higher in Computer T1101
Aided Design and permission of instructor

This semester course teaches the basic fundamentals of computerized manufacturing technology. Utilizing the solid modeling skills developed in the Introduction to CAD course, students will use 3-D software to solve design problems. Students will convert computergenerated geometry into a program to direct the operation of CNC machine tools.

## **ROBOTICS & ENGINEERING**

Grade: 9-12 .50 Credit
Prerequisite: None T904

This is a beginning course in robotics. The objective of this course is to introduce the student to basic programming and engineering concepts as well as problem solving strategies. The course will be utilizing VEX robotics kits, Robot C software, and various VEX Robotics materials. This course will involve students in the development, building and programming of VEX robots. Students will work hands-on in teams to design, build, program and document their progress. Topics include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various course competitions developed by VEX.

## **WORLD LANGUAGE**

The Bolton High School graduate has a fundamental knowledge of a language other than English and understands and respects the diversity of languages and cultures. Courses in this Department of French and Spanish are designed to assess the Oral Communication graduation requirement. Each student completes at least two assessments per year in all French and Spanish courses. Assessments in Grades 9 and 10 are considered "introductory experiences" that are scored, but do not count toward the completion of the graduation requirement. In order to meet this graduation requirement, students must attain a 3 (Meets Requirement) or 4 (With Distinction) on the BHS Oral Communication rubric as a result of one of the designated assessments in French and Spanish courses in Grades 11 or 12.

The Bolton High School graduate writes effectively, expressing ideas with clarity and fluency. Each student completes at least one assessment per year in all Latin courses. Assessments in Grades 9 and 10 are considered "introductory experiences" that are scored, but do not count toward the completion of the graduation requirement. In order to meet the graduation requirement, students must meet or attain a 4 (Meets Requirement), 5 (Exceeds Requirement), or 6 (With Distinction) on the BHS Writing rubric on one of the designated assessments in Latin courses in Grades 11 or 12.

COURSE OFFERINGS					
SP901	Spanish I	1.00 CR			
SP902	Spanish II	1.00 CR			
PS1001/SP1002H	Spanish III / Spanish III Honors	1.00 CR			
SP1101H	Spanish IV Honors	1.00 CR			
SP1201AP	AP Spanish V	1.00 CR			
L901	Latin I	1.00 CR			
L1001	Latin II	1.00 CR			
L1101/L1102H	Latin III / Honors Latin III	1.00 CR			
L1201H	Latin IV Honors	1.00 CR			
L1202AP	AP Latin IV	1.00 CR			

## **Department Staff**

Paul Giblin, Latin Melanie Gold, Spanish Chris Pallis, French & Spanish pgiblin@boltonct.org mgold@boltonct.org cpallis@boltonct.org

### **SPANISH I**

Prerequisite: None

1.00 Credit SP901

This course gives students a useful, working knowledge of basic vocabulary, simple conversation through listening and speaking practice, and a systematic study of the structure of the language. Using a selected text, supplementary materials, and a variety of classroom activities, students acquire basic skills for listening, speaking, reading, and writing in Spanish, and an increased awareness of the Spanish culture. The course also encourages the development of an understanding and appreciation of the geography, people, and culture of the Hispanic world.

## **SPANISH II**

Prerequisite: SP901

1.00 Credit SP902

In this course, students continue to develop the five basic skills established in Spanish I. Students increase their vocabulary and start using more complex grammatical structures with emphasis on spoken language. Cultural awareness and appreciation are also an integral part of this course.

## SPANISH III SPANISH III HONORS

Prerequisite: SP902

1.00 Credit SP1001/SP1002H

In this course, students continue to build their vocabulary and increase their knowledge of structure and functions of the language. Emphasis is put on listening and speaking skills, and writing in the target language becomes more complex. Reading authentic texts as a means of discussion becomes an integral part of the class. Students also expand their knowledge of the Hispanic world and its people. Students may sign up to take Spanish III as an Honors course, with the permission of the instructor. Honors students should expect a more rigorous pace, challenging readings, and additional projects within the course of study in Spanish III.

## **SPANISH IV HONORS**

Prerequisite: SP1001/SP1002H and teacher recommendation

1.00 Credit SP1101H

This honors course refines the four skills. Students work extensively on the grammar of the Spanish language and read texts from different sources. Students will learn the difference uses of verbal tenses, as well as other parts of speech.

## **AP SPANISH V**

Prerequisite: SP1101H and teacher recommendation

1.00 Credit SP1201AP

This course is intended for students to develop the skills necessary to be successful on the AP Spanish Language test. Students in this class will be prepared to take the College Board Advanced Placement Spanish Language examination in May.

## **LATIN I**

Prerequisite: None

1.00 Credit L901

Latin I introduces students to all aspects of Classical studies, with primary focus on Ancient Rome, including Latin language, history, culture and mythology. Students will learn to use Latin to hear the experiences of people who lived and died millennia ago, whose voices still have much to communicate to the modern era. Highlights of cultural studies include the Gods of Greek and Roman mythology, the legends and early history of Rome, and the daily life of the ancient Romans. Emphasis will also be given to developing greater knowledge of English grammar and vocabulary, with weekly examination of English words (including those frequently seen on the SAT) derived from Latin/Greek roots.

### **LATIN II**

Prerequisite: L901

1.00 Credit L1001

Students continue their study of Latin language and Roman culture as they acquire greater facility in reading and writing in Latin. The textbook readings are supplemented by additional readings of authentic Latin to increase students' exposure to ancient authors. The culture and history of the Republican Period, forms the backdrop for exploration of Roman monuments and artifacts, as well as the legacy of ancient Roman political and legal practices as seen in modern American society. Mythology focuses on the heroes of Greek and Roman mythology, and students compare concepts of heroism to the modern era. The study of Greek and Latin influence on English vocabulary and grammar continues to be emphasized, with weekly study of English words (including those frequently seen on the SAT) derived from Latin/Greek roots.

## LATIN III LATIN III HONORS

Prerequisite: L901

1.00 Credit L1001

Students continue their study of Latin language and Roman culture as they acquire greater facility in reading and writing in Latin. The textbook readings are supplemented by additional readings of authentic Latin to increase students' exposure to ancient authors. The culture and history of the Republican Period, forms the backdrop for exploration of Roman monuments and artifacts, as well as the legacy of ancient Roman political and legal practices as seen in modern American society. Mythology focuses on the heroes of Greek and Roman mythology, and students compare concepts of heroism to the modern era. The study of Greek and Latin influence on English vocabulary and grammar continues to be emphasized, with weekly study of English words (including those frequently seen on the SAT) derived from Latin/Greek roots.

## LATIN IV HONORS AP LATIN IV

Prerequisite: L901

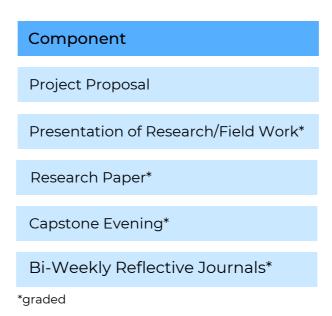
1.00 Credit L1201H/L1202AP

In this honors course, students use all of the knowledge they have acquired in the previous three years of Latin toward extensive readings of authentic texts. Students read works of the Latin poets, with primary emphasis on excerpts from Vergil's Aeneid, the great Roman epic about the fall of Troy and the founding of Roman civilization, and Ovid's Metamorphoses, one of the best-loved and widely-read sources of Greco-Roman mythology. Poetic and stylistic devices will be examined, as will the impact of the poets on their own culture and successive cultures. The study of Greek and Latin influence on English vocabulary and grammar continues to be emphasized, with weekly study of English words (including those frequently seen on the SAT) derived from Latin/Greek roots. With teacher permission, students who demonstrate a high degree of proficiency and motivation in Latin may elect Latin IV as Latin IV/AP – Advanced Placement Independent Study, in preparation for the Advanced Placement Latin examination in May.

## **CAPSTONE PROJECT**

The focus of the Bolton High School Capstone is to engage each student in a personalized learning experience. The project allows students the opportunity to apply and to demonstrate interdisciplinary skills and knowledge while investigating a specialized area of interest that is supported by an adult mentor. Each student will have the assistance of an evaluator to guide the student through this project, as well as an adult mentor who has specific knowledge of the area the student has chosen to explore.

The Senior Capstone is comprised of five required components:



Capstone is a graduation requirement. Evaluation of each student's Capstone will be conducted by the Senior Capstone Evaluation Committee, and will include:

- a review of all written components in the form of the research paper and journal reflection (to include input from evaluators and mentors);
- rubric scores from presentations;

Students will receive scores upon completion of each phase of their projects. In order to meet the graduation requirement, students must earn 65 out of the 100 allotted points.

A manual has been designed to guide students, their evaluators, and Capstone Coordinators through the phases of Capstone. Students must read the sections related to the required components and complete the Capstone Proposal form. This form must be submitted to the Capstone Coordinators no later than May of their Junior year. The coordinators will review all proposals and grant permission for students to pursue their topic, or require students to amend proposals until they are deemed acceptable. It is important to note that, in order for a proposal for Capstone to be considered acceptable, the student must establish and articulate a clear connection between the idea of the project and the knowledge they have acquired through school experiences in content areas, coursework, and/or other school-related experiences.

Questions may be addressed to the Capstone Coordinators, Magee Kloepfer and/or Colin Dennis:

Magee Kloepfer - mkloepfer@boltonct.org Colin Dennis - cdennis@boltonct.org

## **Bolton High School**

## COMPREHENSIVE SCHOOL COUNSELING PROGRAM

## **OVERREACHING SERVICES**

- Emotional/Social Support
- · Crisis Counseling
- Classroom Lessons
- Course Scheduling & Academic Requirements
- Graduation Requirements
- Registration & Withdrawal
- 504 Case Management
- Transcripts & Requests
- Summer Programs
- Scholarship Listings
- Interests & Careers
- Applying to College
- Letters of Recommendation
- Financial Aid
- Naviance & College Board

## COMPREHENSIVE PROGRAM SPECIFIC TO EACH YEAR:

- Grade 9:
  - Transition Support
  - Self Assessment
  - PSAT 8/9 Test
  - o 4 Year Plan Review
  - Scheduling Conferences

### • Grade 10:

- o Career Assessment Unit
- PSAT Tests
- 4 Year Plan Review
- Job Shadow
- o Scheduling Conference

### • Grade ll:

- o PSAT/SAT School Day Test
- Post High School Planning Meetings
- Post Secondary Options Evening Meeting
- o Scheduling Conference
- Financial Aid Parent/Student Program

## Grade 12:

- o Decision Making
- College Counseling
- College Applications & Recommendations
- Financial Aid Parent/Student Program
- Graduation



## **School Counselors**

Grades 9 & 10 - Amy Destiné (adestine@boltonct.org)
Grades 11 & 12 - Todd Giansanti (tgiansanti@boltonct.org)

Administrative Assistant

Meghan Redner (mredner@boltonct.org)