



# **Bloomfield High School**

## **A Community Focused on Excellence**



# **Program of Studies**

## **2022-2023**



## **Bloomfield High School**

5 Huckleberry Lane  
Bloomfield, CT 06002  
(860) 286-2630

Ranked #36 within Connecticut High Schools, April 2017 by U.S. News & World Report, Bloomfield High School is a comprehensive learning environment preparing students in grades 9-12 for a myriad of college and career opportunities.

BHS students are provided opportunities to take Advanced Placement (AP), college level (UCONN Early College Experience), Honors and Academic level courses. Course offerings include English, Mathematics, Social Studies, Science, World Language, Performing and Fine Arts and Physical Education/Health. Additionally, students are enrolled in our consumer arts program, inclusive of business education, computer technology and graphic and culinary arts. JROTC is also an option for students.

The Bloomfield High School campus also houses the Donald F. Harris, Sr. Agriscience and Technology Center, established to provide students with an agricultural education with a focus on the applied sciences (biology, chemistry, physics) and business management principles. Students in this program learn and gain valuable skills in aquaculture, animal and plant science technology, horticulture, natural resources and computer technology applications. Approximately 93 percent of BHS students continue on to institutions of higher learning with the remaining entering the workforce and/or the military.

### **Board of Education**

Mr. Donald F. Harris, Jr., Chair  
Mr. Howard Steven Frydman, Vice Chair  
Mr. Joseph Wilkerson, Jr., Secretary  
Mr. Robert W. Ike  
Mr. Thomas Moore  
Ms. Lynette Easmon  
Ms. Femi Bogle-Assegai

### **Bloomfield Public Schools**

Dr. James Thompson, Jr., Superintendent  
Ms. Stacey McCann, Chief Academic Officer  
Mr. William D. Guzman, Chief Operations Officer  
Mrs. Wendy Shepard-Bannish, Director of Student Support Services  
Mr. John Robinson, Director of Technology/Human Resources Coordinator  
Anne Marie Cullinan, Curriculum Specialist  
Stan Simpson, Director of Strategic Communications and Planning

### **Bloomfield High School Administration**

Mr. Daniel R. Moleti, Principal  
Mr. Jesse J. White, Principal on Assignment  
Dr. Frank J. Macchi, Director of Literacy



## Table of Contents

<u>GENERAL INFORMATION</u>	<u>Page</u>
Bloomfield High School Mission and Vision Statement	5
Bloomfield High School 21st Century Academic, Civic and Social Expectations for Student Learning	6
Bloomfield High School Counseling Department	7
Graduation Requirements	8
S.T.E.M. Elective Courses	9
Humanities Elective Courses	10
Description of Course Levels	11-12
Pass/Fail Policy	13
Selection of Courses	13
Credit Recovery	13
Mastery Based Service Learning Project	13
Quality-Point Policy	14
Calculating Grade Point Average	14
Honor Roll	14
University of Connecticut Cooperative Program	15
College Sports Eligibility Requirements	16-18
NCAA Eligibility Center List of Denied Courses	19
NCAA Approved Core Courses for Eligibility	20
Planning for College & Post-Secondary Education	21-22
Four Year Course Plan	23
Course Index	24-27



## Table of Contents

<u>COURSE DESCRIPTIONS</u>	<u>Page</u>
English	28-32
Mathematics	33-38
Science	39-45
AgriScience	46-53
Social Studies	54-60
Student Support Services	61-62
Physical Education/Health	63-67
<u>ELECTIVE COURSES</u>	<u>Page</u>
World Languages	68-72
The Arts:	73-76
Performing Arts	73-75
Visual Arts	76
Career and Technical Education	77-83
Business	77-79
Technology Education	80-81
Culinary	82-83
Special Programs:	
Junior Reserves Officer Training (JROTC)	84-86



## **Bloomfield High School Mission Statement**

To prepare every student to become a life-long learner, who reads closely, thinks critically, asks questions, solves problems and communicates effectively.

## **Bloomfield High School Vision Statement**

BHS graduates will be academically, socially, emotionally, and technologically equipped to gain access, adapt, and graduate from the most competitive colleges, universities, and/or training programs to pursue purposeful professions and careers in order to become civic minded and service-orientated citizens in a pluralistic society.





## 21ST CENTURY ACADEMIC EXPECTATIONS FOR STUDENT LEARNING

<b>P</b>	The students will develop and refine college and career ready writing skills through a precise and systematic school-wide approach
<b>R</b>	The student will develop and maintain the aptitude to work collaboratively and communicate effectively through a variety of mediums.
<b>I</b>	The student will develop and demonstrate competence in research and technological skill sets.
<b>D</b>	The student will develop and advance critical thinking and problem solving skills through rigorous acquisition, analysis, and evaluation of information.
<b>E</b>	The student will communicate mathematically and linguistically using 21 <sup>st</sup> Century Learning Skills.

## 21ST CENTURY SOCIAL AND CIVIC EXPECTATIONS FOR STUDENT LEARNING

<b>P</b>	The student will utilize curricular and extracurricular activities to become college and career ready.
<b>R</b>	The student will respect physical, social, and emotional differences by building constructive and worthwhile relationships.
<b>I</b>	The student will demonstrate strong character and integrity through positive interactions and meaningful self-reflection.
<b>D</b>	The student will show their civic and social responsibility through active participation within the school and local community.
<b>E</b>	The student will prove their commitment to personal, physical, social, and emotional achievement through the development and strengthening of intrinsic motivation.



## School Counseling Department

### School Counseling Mission Statement:

The Mission of the Bloomfield High School Counseling Department is to support the school's academic, social, and civic expectations, and to advocate for student growth and achievement through the delivery of our Comprehensive School Counseling Program. The mission will be carried out through the collaborative efforts of the School Counseling Department in partnership with staff, parents, guardians, students, and the community.

### School Counselors at Bloomfield High School:

- ◆ Provide ongoing counseling to students on an individual, small group, classroom and/or school wide assembly basis on a myriad of topics inclusive of but not limited to GPA, course schedules, grade level requirements, transcripts, post-secondary opportunities, scholarships, etc.
- ◆ Collaborate with administrators, school staff, and parents on academic, social/emotional, career and post-secondary options.
- ◆ Coordinate UCONN Early College Experience (ECE) and Advanced Placement (AP) Programs.
- ◆ Provide the leadership and training to teachers/proctors in the administration and interpretation of the Redesigned PSAT/SAT.
- ◆ Provide leadership and discussion topics for the school's mentoring program.
- ◆ School liaisons for college and community service agencies and organizations.
- ◆ Sponsor an annual College Fair .
- ◆ Serve on the School's Planning and Placement Team (PPT) and coordinate 504 plans.
- ◆ Engage in continuous professional growth to enhance knowledge in the counseling field.

### School Counselor Assignments 2022-2023

<b>Grade</b>	<b>Name</b>	<b>Email</b>
Grade 9	Ms. Sharon Plummer	<a href="mailto:splummer@blmfld.org">splummer@blmfld.org</a>
Grade 10	Ms. Shannon Trombino	<a href="mailto:strombino@blmfld.org">strombino@blmfld.org</a>
Grade 11	Ms. Kelly Drury	<a href="mailto:kdrury@blmfld.org">kdrury@blmfld.org</a>
Grade 12	Ms. Kendra Venhorst	<a href="mailto:kvenhorst@blmfld.org">kvenhorst@blmfld.org</a>

Students are assigned to School Counselors by grade. To ensure availability of one-to-one time with a school counselor, we encourage students to make an appointment through the School Counseling office. Parents and guardians may contact the School Counseling office at (860) 286-2636 to make an appointment. School Counselors are available between the hours of 7:25 a.m. and 2:50 p.m. Counselors are also available via e-mail.



<b>Graduation Requirements</b>	
A graduate of the Bloomfield Public Schools must have earned the minimum number of credits and met the established credit distribution requirement. In accordance with law 10-233a, students must also meet additional performance standards. NGSS performance standards must be met in Science. The SAT will be the performance standard for Math, Reading and Writing.	
<b>Minimum Credits and Course Requirements:</b>	
<b>Subject Area</b>	<b>Number of Credits</b>
English	4.0
Mathematics	3.0
Science (including Biology)	3.0
Social Studies (Including Civics, World History & US History)	3.0
Arts or Vocational Ed	1.0
Physical Education/Health	2.0
Humanities Elective (English, Social Studies, Arts)	1.0
World Language	1.0
S.T.E.M. Elective (Science, Technology, Engineering, and Math)	3.0
Elective	3.0
Mastery-Based Diploma Assessment	1.0
<b>Total Needed for Graduation</b>	<b>25.0</b>
Graduation requirements include the number of credits in addition to specific course work passed successfully in grades 9 through 12. To be considered full-time students, all students must carry a minimum of 5.5 credits.	

**Requirements for Promotion: Class of 2023 and Beyond**

Grade placement at Bloomfield High School is determined by the total number of credits the student has earned at the end of each year. Promotion from one grade to the next requires that the student earns a specific minimum number of credits.

<b>Grade Placement</b>	<b>Minimum Cumulative Credits</b>
10	6.0
11	12.0
12	18.0

**Semester Credits**

Bloomfield High School will award credits at the end of the school year. Seniors who do not pass required classes are in danger of not graduating in June. Students must maintain an average of 60 percent or above for each course, to earn credit.





## S.T.E.M. Elective Courses

### Mathematics Eligible Courses:

- Algebra I
- Algebra I Level I
- Algebra I Level II
- Algebra II
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- College Algebra
- Computer Science Principles
- Pre-Calculus
- Probability and Statistics
- UCONN Essentials of Economics

### Science Eligible Courses:

- Anatomy and Physiology
- AP Biology
- AP Environmental Science
- Chemistry
- Conceptual Chemistry
- Forensic Science
- Genetics
- Integrated Science
- Kinesiology
- Physics
- UCONN Chemistry
- UCONN Medical Terminology

### Technology Courses:

- Animation
- Graphic Communication
- Media Design and Production
- Publication Design I
- Yearbook Publishing

### Agri-Science Eligible Courses:

- Advanced Ag Mechanics and Engineering
- Agri-Science Biology
- Automotive I
- Automotive II
- Botany
- Comparative Anatomy and Physiology
- Design Build
- Ecology
- Equine Studies
- Exploring the Equine Industry
- Facility Design and Operations Lab
- Greenhouse Management
- Integrated Agriculture Science
- Introduction to Ag Mechanics
- Natural Resources/Environmental Science
- Nutritional Chemistry
- Principles of Large Animal Husbandry
- UCONN Companion Animals
- UCONN Floral Art I
- UCONN Floral Art II
- UCONN Horticulture



## Humanities Elective Courses

### Social Studies Electives:

- African American Experience
- Caribbean Studies
- Psychology
- Sociology
- Topics in Latino American History
- UCONN Introduction to Human Rights

### Art Electives: Visual and Performing Art

#### Visual Art Electives:

- Three Dimensional Art
- Art I
- Art II
- Special Topics in Art

#### Performing Art Electives:

- Chamber Instrumental Ensemble
- Concert Band I
- Concert Band II
- Concert Band III
- Concert Choir
- Concert Choir II
- Mixed Chorale
- Select Choir
- Sound Design and Production
- UCONN Music Fundamentals I
- UCONN Music Fundamentals II
- Voices of Inspiration Choir



## Description of Course Levels

### Advanced Placement (AP) and University of Connecticut Early College Experience (UCONN ECE)

Courses offered at the Advanced Placement level, along with courses in the UCONN ECE High School Cooperative Program\* are the most challenging courses at Bloomfield High School.

Students electing to take AP and UCONN ECE courses must be highly motivated and should have earned:

- A record of high achievement (B or better) in the related honors courses.
- 530 or above in EBRW (Evidence Based Reading and Writing) and/or Math on the Redesigned PSAT/SAT.
- Above Grade Level on Degrees of Reading Power (DRP).

**Students enrolled in AP courses must take the AP practice and the AP exam for that course in order to receive AP credit and weighting on their transcript. \*\***

\* See the University of Connecticut High School Cooperative Program for an explanation of the UCONN college credit courses.

\*\* Many colleges in the United States will award credit when a student receives a 3, 4, or 5 on an AP exam.

## Honors

Like the AP courses, Honors courses are designed for the student who is a high achiever. The courses are offered in the 9<sup>th</sup> grade and are available through the 12<sup>th</sup> grade. A student placed in Honors courses should possess intellectual curiosity, be capable of handling abstract concepts, demonstrate a willingness to accept challenges, and function above grade level in comprehension and written expression. Honors courses require students to master more material in greater depth and detail at a faster pace than Academic courses. Students in Honors courses are expected to utilize analytical and critical thinking skills, to draw conclusions based on research, to work independently, and to exhibit consistently superior work.

Incoming 9<sup>th</sup> grade students electing Honors have earned:

- B+ or better in related 8th grade courses (except for Honors Geometry which requires a B- in Algebra 1).
- Level 3 or 4 in Reading and/or Math on the Smarter Balanced Assessment Consortium (SBAC).
- Benchmark goal or above in ERBW and/or Math on the Redesigned PSAT.
- Grade level or above on the DRP.



## Honors

Current 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grade students electing Honors courses have earned:

- Achievement of B or better in a related Honors course.
- B+ or better in an Academic course.
- Grade level benchmark in ERBW and/or Math on the Redesigned PSAT/SAT.
- Grade level or above on the DRP.

## Academic

Academic courses at this level are rigorous and designed for students who are college bound, as well as those students who will pursue careers upon graduation. Materials are grade appropriate and are presented by various techniques to encourage strong academic achievement. Students are required to demonstrate analytical and critical comprehension skills and study habits.

Incoming 9<sup>th</sup> grade students have earned:

- Level 2 or below in Reading and/or Math on the Smarter Balanced Assessment Consortium (SBAC).
- Below benchmark in ERBW and/or Math on the Redesigned PSAT.
- Below benchmark grade level on the DRP.

Current 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grade students must have earned:

- Below benchmark in ERBW and/or Math on the Redesigned PSAT.
- Below benchmark grade level on the DRP.



### **Pass/Fail Policy**

1. Students must request pass/fail status from the school counselor at the time of the course selection and may not change that status once the course has begun.
2. Students will be expected to abide by all school and course requirements regarding class attendance and scholastic expectations. Students will receive the usual progress reports. Marking period grades and semester exam grades will be recorded as “P”(pass) or “F”(fail).
3. At the conclusion of the course, students will have a pass or fail on their scholastic records. Grades will not count as part of their honor roll, class rank, or GPA.

### **Selection of Courses**

The selection of courses is an important process that allows students to set goals and plan effectively for a successful completion of their high school career. Students need to choose courses to meet graduation requirements and to prepare them for both educational and career paths beyond high school. The school counselor is an important resource who can advise students and their parents/guardians of the available options.

Although every effort will be made to grant students their requests for course selection, they will not necessarily be scheduled into all of the courses they request. Scheduling conflicts may occur due to the limited number of course offerings available.

### **Credit Recovery**

BHS offers PLATO, an online recovery program for students who have fallen behind due to academic or attendance issues. PLATO offers a variety of core classes and electives that can be taken for credit recovery. Students can work at their own pace throughout the course of a semester or over the course of a year to make up a credit that has been lost or is needed for graduation. This program can also be used by students for enrichment or to take a class that is currently not offered at BHS. Maximum amount of credits that can be earned on PLATO is two.

Enrollment in PLATO courses is at the discretion of your guidance counselor and administration. Students should not rely on PLATO as a method for attaining credits needed for graduation. PLATO should be a last resort.

### **Mastery Based Service Learning Project**

As part of the State of Connecticut’s updated requirements for graduation, beginning with the class of 2023 students must complete a service learning project that supports their transition from Bloomfield High School to college and post-secondary opportunities. The project is embedded within Civics classes and requires students to master the skills needed to be life-long learners. Project requirements include a proposal, research paper, reflective essay, portfolio of artifacts, and a PowerPoint presentation to a panel of 3-5 people.



### Quality-Point Policy

While many factors are considered for college admissions, a student’s scholastic average and corresponding class rank are significant indicators for predicting scholastic success. Bloomfield High School uses these metrics in computing scholastic averages and class ranks to assist students in gaining acceptance to college programs that will match their academic achievements.

Bloomfield High School provides instruction and course materials to challenge all students in all course levels. AP/UCONN ECE and Honors courses are offered for students who are willing to meet the expectations and demands of an Honors curriculum and who desire an exceptional challenge. A quality point value is assigned to each level. Listed below are the Quality-Point (QP) values:

GRADE	AP/UCONN	HONORS	ACADEMIC
A+	4.50	4.25	4.00
A	4.25	4.00	3.75
A-	4.00	3.75	3.50
B+	3.75	3.50	3.25
B	3.50	3.25	3.00
B-	3.25	3.00	2.75
C+	3.00	2.75	2.50
C	2.75	2.50	2.25
C-	2.50	2.25	2.00
D+	2.25	2.00	1.75
D	2.00	1.75	1.50
D-	1.75	1.50	1.25

### Calculating Grade Point Average

Grade point average is determined by identifying the Quality Point Value for the correct level and grade of the course. Add these Quality points together, and divide by the total number of credits. A student’s grade point average determines that student’s class rank.

$$\frac{\text{GPA Quality Points} \times \text{Number of Potential Credits}}{\text{Potential Credits}}$$

### Honor Roll

Requirements to make academic honor roll are:

**Honors:** Student must have a 3.0 or higher (for the quarter) - up to 3.59

**High Honors:** Student must have a 3.6 or higher (for the quarter)

**No D's or F's, no more than two P's, and no Incompletes**



## University of Connecticut High School Cooperative Program



Bloomfield High School provides an opportunity for students to earn college credits from UCONN through the Early College Experience program from the University of Connecticut while attending Bloomfield High School.

UCONN Early College Experience (ECE) is a concurrent enrollment program that allows motivated high school students to take UCONN courses at their high schools for both high school and college credit. Courses taken through UCONN ECE are equivalent to the same course at the University of Connecticut. BHS students benefit by taking college courses in a setting that is both familiar and conducive to learning. BHS teachers who participate in this program have been certified through the University of Connecticut and serve as adjunct faculty members.

UCONN ECE students must successfully complete the course with a grade of C or above in order to receive university credit. These credits are transferable to most universities and colleges.

Bloomfield High School currently offers the following UCONN ECE Courses:

- ⇒ AH 2001: Medical Terminology
- ⇒ ANSC 1676: Companion Animals
- ⇒ CHEM 1127Q: General Chemistry I
- ⇒ ECON 1000: Essential of Economics
- ⇒ HORT 2520: Floral Art I
- ⇒ HORT 2521: Floral Art I
- ⇒ HRTS 1007: Introduction to Human Rights
- ⇒ MUSI 1011: Fundamentals/Ear Training I
- ⇒ MUSI 1012: Fundamentals/Ear Training II
- ⇒ SPAN 3178: Intermediate Spanish Composition

For more information about the ECE program, visit [www.ece.uconn.edu](http://www.ece.uconn.edu).



## Sports Eligibility: Planning on Playing a Sport in College?



Students planning to participate in DIVISION I or DIVISION II athletics in college must be certified by the National Collegiate Athletic Association (NCAA) Initial-Eligibility Clearinghouse.

NCAA eligibility criteria have been revised and will continue to change. Students are advised to log-on to the NCAA Clearinghouse website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) for details and updates of these changes and to obtain their copy of *Guide for the College-Bound Student-Athlete*.

The NCAA has adopted new legislation that will require prospects that intend to enroll at NCAA Division I and Division II institutions to supply ACT or SAT scores to the Clearinghouse directly from the testing agencies. When registering for the SAT or ACT, input the Eligibility Center code **9999** to make sure the score is reported directly to the Eligibility Center.

### NCAA Division I Initial Eligibility Requirements

#### Core Courses:

- Sixteen core courses are required
- Ten core courses must be completed before the seventh semester; seven of the ten must be in English, Math or Natural/Physical Science
  - These courses are “locked in” at the start of the seventh semester (cannot be repeated for GPA improvement to meet initial eligibility requirements)
- Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center

#### Test Scores:

- Students must present a corresponding test score and core course GPA on the sliding scale
  - SAT: Critical Reading and Math Sections
    - Best sub score from each section is used to determine the SAT combined score for initial eligibility
  - ACT: English, Math, Reading and Science Sections
    - Best sub score from each section is used to determine the ACT combined score for initial eligibility

#### Core Grade-Point Average:

- Only core courses that appear on the high school’s list of NCAA Approved Courses will be used to calculate your core-course GPA
  - Students must present a corresponding test score and core-course GPA
  - Core course GPA is calculated using the best 16 core courses that meet both progression and subject area requirements





## Division I Requirements

Full Qualifier: May receive an athletic scholarship, practice and compete in the first year of enrollment. In order to be a full qualifier, a student must meet these requirements:

- Complete 16 core courses
- 10 of the 16 core courses must be completed before the seventh semester of high school. These courses are “locked in” for purposes of GPA calculation and will not be allowed to be retaken following the beginning of the students seventh semester.
- 7 of the 10 core courses must be in English, Math or Science
- Have a minimum core GPA must be a 2.3
- Meet the competition sliding scale requirement of GPA and ACT/SAT score

Academic Redshirt: May receive an athletic scholarship in the first year of enrollment and may practice in the first regular academic semester but may not compete in the first year of enrollment. After the first semester is complete, the student-athlete must be in good standing academically to continue to practice for the rest of the year. In order to be an academic redshirt qualifier, a student must meet these requirements:

- Complete 16 core courses
- Have a minimum core course GPA of a 2.0
- Meet the academic redshirt sliding scale requirement of GPA and ACT/SAT score

Non-qualifier: Cannot receive an athletic scholarship, cannot practice and cannot compete in the first year of enrollment.

- Fails to meet the standards for a qualifier or for an academic redshirt

## Division II Requirements

### Core Courses:

- Division II currently requires 16 core courses

### Test Scores:

- Beginning August 1, 2018, Division II started using a sliding scale to match test scores and core course GPA
- The SAT score used for NCAA purposes includes only the critical reading and math sections
- The ACT score used for NCAA purposes is sum of the following four sections: English, mathematics, reading and science

### Grade Point Average:

- The Division II core GPA required to be eligible for competition on or after August 1, 2018, is 2.200
- The minimum Division II core GPA required to receive athletics aid and practice as a partial qualifier on or after August 1, 2018, is 2.0.



### Units Required for NCAA Certification

Core Courses	Division I	Division II
English Core	4 Years	3 Years
Math Core	3 Years	2 Years
Science Core	2 Years	2 Years
Social Science Core (Social Studies)	2 Years	2 Years
Additional English, Math or Science	1 Year	3 Years
Additional Core Courses: <ul style="list-style-type: none"><li>▪ English</li><li>▪ Math</li><li>▪ Science</li><li>▪ Social Science</li><li>▪ World Language</li></ul>	4 Years	4 Years
<b>Total Core Units Required</b>	<b>16 Units</b>	<b>16 Units</b>

For more information, please visit the NCAA Eligibility Center website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).



### NCAA Eligibility Center List of Denied Courses

The following BHS courses do not currently qualify as NCAA core courses and therefore cannot be used for NCAA initial-eligibility certification. PLATO courses are not currently approved as core courses by the NCAA. Students who are considering playing college athletics should keep this in mind and communicate their intent to their school counselor when selecting their courses.

<p><b>English:</b></p> <ul style="list-style-type: none"><li>▪ Diverse Topics in Literature I and II</li></ul> <p><b>Math:</b></p> <ul style="list-style-type: none"><li>▪ Math Lab I and II</li><li>▪ Algebra I – Level 1 and 2</li></ul> <p><b>Science:</b></p> <ul style="list-style-type: none"><li>▪ Advanced Ag Mechanic and Engineering</li><li>▪ Automotive I</li><li>▪ Automotive II</li><li>▪ Design Build</li><li>▪ Equine Studies</li><li>▪ Exploring the Equine Industry</li><li>▪ Facility Design and Operations and Lab</li><li>▪ Food Science</li><li>▪ Greenhouse Management</li><li>▪ Honors Veterinary Science</li><li>▪ Integrated Agriculture Science</li><li>▪ Introduction to Ag Mechanics</li><li>▪ Nutritional Chemistry</li><li>▪ Principles of Large Animal Husbandry</li><li>▪ UCONN Companion Animals</li></ul>	<p><b>Science Continued:</b></p> <ul style="list-style-type: none"><li>▪ UCONN Floral Art I and II</li><li>▪ UCONN Horticulture</li><li>▪ UCONN Medical Terminology</li></ul> <p><b>Additional Denied Courses:</b></p> <ul style="list-style-type: none"><li>▪ All Culinary Courses</li><li>▪ All Business Courses Except UCONN Essentials of Economics</li><li>▪ All Technology Courses</li><li>▪ All Physical Education and Health Courses</li><li>▪ All JROTC Courses</li><li>▪ All Art Courses</li><li>▪ All Music Courses</li></ul>
--	--



### NCAA Approved Core Courses for Eligibility

The following courses offered at BHS meet NCAA eligibility for a student to participate in college athletics. New course offerings may be added to this list if they receive NCAA approval. Students planning on participating in college athletics should work closely with their school counselor when selecting courses.

<p><b>English:</b></p> <ul style="list-style-type: none"><li>▪ AP English 11</li><li>▪ AP English 12</li><li>▪ Freshman English</li><li>▪ Junior English</li><li>▪ Literary Writing</li><li>▪ Public Speaking</li><li>▪ Senior English</li><li>▪ Sophomore English</li></ul> <p><b>Social Science:</b></p> <ul style="list-style-type: none"><li>▪ African American Experience</li><li>▪ AP World History</li><li>▪ AP U.S. History</li><li>▪ Caribbean Studies</li><li>▪ Civics</li><li>▪ Modern World History</li><li>▪ Psychology</li><li>▪ Sociology</li><li>▪ Topics in Latino American History</li><li>▪ UCONN Introduction to Human Rights</li><li>▪ U.S. History</li></ul> <p><b>Mathematics:</b></p> <ul style="list-style-type: none"><li>▪ Algebra I</li><li>▪ Algebra II</li><li>▪ AP Calculus</li><li>▪ AP Calculus BC</li><li>▪ AP Statistics</li><li>▪ College Algebra</li><li>▪ Computer Science Principles</li><li>▪ Geometry</li><li>▪ Pre-Calculus</li><li>▪ Probability and Statistics</li><li>▪ UCONN Essentials of Economics</li></ul>	<p><b>Natural/Physical Science:</b></p> <ul style="list-style-type: none"><li>▪ Agriculture Biology</li><li>▪ Anatomy and Physiology</li><li>▪ AP Biology</li><li>▪ AP Environmental Science</li><li>▪ Biology</li><li>▪ Botany</li><li>▪ Chemistry</li><li>▪ Comparative Anatomy and Physiology</li><li>▪ Conceptual Chemistry</li><li>▪ Ecology</li><li>▪ Environmental Studies</li><li>▪ Forensic Science</li><li>▪ Genetics</li><li>▪ Integrated Science</li><li>▪ Kinesiology</li><li>▪ Natural Resources/Environmental Science</li><li>▪ Physics</li><li>▪ Robotics</li><li>▪ UCONN Chemistry</li></ul> <p><b>Additional Core Courses (World Language):</b></p> <ul style="list-style-type: none"><li>▪ Diverse Topics in Spanish Culture</li><li>▪ French I</li><li>▪ French II</li><li>▪ French III</li><li>▪ French IV</li><li>▪ French V</li><li>▪ Spanish I</li><li>▪ Spanish II</li><li>▪ Spanish III</li><li>▪ Spanish IV</li><li>▪ UCONN Spanish</li></ul>
--	--

\*\*BHS' NCAA Approved Core Course List changes yearly. Please make sure to confirm the list online at <https://web3.ncaa.org/hsportal/exec/hsAction?hsActionSubmit=searchHighSchool> or check with your guidance counselor before making your course selections.



## Planning For College and Post-Secondary Education

### I. Four-Year Degree-Granting Colleges

English	4 years
Mathematics	4 years including Algebra, Geometry, Probability and Statistics, Algebra II and College Algebra or Pre-Calculus
Science	3 years with at least two laboratory sciences (Biology, Physics and Chemistry recommended)
Social Studies	3 years, including U.S. History
Language	3 years of a single language desired

### II. Two-Year Junior and Community College Transfer Program

(Requirements for this group of institutions generally follow those listed for four year colleges.)

English	4 years
Mathematics	4 years including Algebra, Geometry, Probability and Statistics and Algebra II
Science	3 years with at least two laboratory sciences
Social Studies	3 years, including U.S. History
Language	3 years minimum of a single language

### III. Engineering Colleges (4 or 5 year Programs)

English	4 years
Mathematics	4 years
Science	Biology, Chemistry, and Physics
Social Studies	3 years, including U.S. History
Language	3 years

### IV. Two-Year Technical Institutes and Schools

English	4 years
Mathematics	2 years minimum, including Algebra I, Geometry and Probability and Statistics
Science	Physics/Chemistry

### V. Nursing Schools - Diploma or Collegiate Programs

English	4 years
Mathematics	3 years minimum, including Algebra, Geometry, Probability and Statistics and Algebra II
Science	Biology, Chemistry, and Physics
Social Studies	3 years, including U.S. History
Language	3 years of a single language



## Planning For College and Post-Secondary Education

### VI. Two-Year Junior and Community College Career Programs

Requirements for career programs such as administrative assistant, early childhood education, food service management and criminal justice depend upon individual college policies. However, high school subjects that include some college preparatory areas are desired.

### VII. Nursing Schools—Licensed Practical Nursing Programs

College preparatory subjects are encouraged, but a high school program with at least biology and two or three years of mathematics is still accepted as long as marks are “C” or better

### VIII. Schools of Technology and Business-Certificate Programs

Word Processing and other business and technology courses are recommended but not required. Schools will accept students with a sound general high school record.





**Four Year Course Plan**

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
English (4.0)				
Math (3.0)				
Science (3.0) <b>1.0 Biology</b>				
Social Studies (3.0) <b>1.0 World History</b> <b>1.0 U.S. History</b> <b>0.5 Civics</b> <b>0.5 S.S. Elective</b>				
Arts or Vocational Ed. (1.0)				
Physical Ed/Health (2.0) <b>1.0 PE (Must Include Physical Fitness Test)</b> <b>1.0 Health (Health I .25, Health II .50, CPR/First Aid .25)</b>				
Humanities Elective: English, Social Studies, and The Arts (1.0)				
S.T.E.M Electives: Science, Technology, Engineering and Math (4.0)				
World Language (1.0)				
Mastery Based Diploma Assessment (1.0)				
Electives (2.0)				
Total Each Year <i>Total Minimum Credits Required: 25.0 Credits</i>				

**Courses in Bold are Graduation Requirements**



Course Index

Course Title	Level	Offered	Credit	Grade Offered
<b>AgriScience</b>				
Advanced Ag Mechanics and Engineering	A	S2	0.5	10 11 12
Automotive I	A	S1	0.5	9 10 11 12
Automotive II	A	S2	0.5	10 11 12
Agricultural Biology	A/H	Full-Year	1.0	10 11 12
Botany	A	S1/S2	0.5	11 12
Comparative Anatomy and Physiology	UCONN	Full-Year	1.0	11 12
Design Build	A	S2	0.5	11 12
Ecology	A	S1/S2	0.5	11 12
Equine Science	POST	Full-Year	1.0	11 12
Exploring The Equine Industry	POST	Full-Year	1.0	11 12
Facility Design and Operations and Lab	POST	Full-Year	1.0	11 12
Floral Art I	UCONN	S1/S2	0.5	11 12
Floral Art II	UCONN	S1/S2	0.5	11 12
Greenhouse Management	A	Full-Year	1.0	11 12
Horticulture	UCONN	Full-Year	1.0	11 12
Integrated Agriculture Science	A/H	Full-Year	1.0	9 10 11
Introduction to Ag Mechanics	A	S1/S2		
Natural Resources/ Environmental Science	A	Full-Year	1.0	10 11 12
Nutritional Chemistry	A	S1/S2	0.5	11 12
Principles of Large Animal Husbandry	A	Full-Year	1.0	11 12
Veterinary Science and Technology	H	Full-Year	1.0	11 12
<b>Career and Technical Education:</b>				
<b>Business</b>				
Business Computer Applications	A	S1/S2	0.5	9 10 11 12
College and Career Readiness	A	S1/S2	0.5	10 11 12
Entrepreneurship	A	S1/S2	0.5	10 11 12
Essentials of Economics	UCONN	S1/S2	0.5	11 12
Financial Literacy	A	S1/S2	0.5	9 10 11 12
Introduction to Business	A	S1/S2	0.5	9 10 11 12
Marketing	A	S1/S2	0.5	9 10 11 12
Personal Finance I	A	S1/S2	0.5	9 10 11 12
Personal Finance II	A	S1/S2	0.5	10 11 12
<b>Technology</b>				
Animation	A	S1/S2	0.5	10 11 12
Graphic Communications	A	S1/S2	0.5	10 11 12
Media Design and Production	A	S1/S2	0.5	11 12
Publication Design I	A	S1/S2	0.5	9 10 11 12
Yearbook Publishing	A	Full-Year	1.0	11 12

A=Academic, H=Honors, AP=Advanced Placement, UCONN=Early College Experience, POST=Post University





Course Title	Level	Offered	Credit	Grade Offered
<b>Culinary</b>				
Culinary Arts I	A	S1/S2	0.5	10 11 12
Culinary Arts II	A	S1/S2	0.5	11 12
Culinary Applications	A	S1/S2	0.5	9 10 11 12
Food and Nutrition Fundamentals	A	S1/S2	0.5	9 10 11 12
Introduction to Culinary	A	S1/S2	0.5	10 11 12
<b>English</b>				
AP Language and Composition	AP	Full-Year	1.0	11
AP Literature and Composition	AP	Full-Year	1.0	12
Freshman English	A/H	Full-Year	1.0	9
Junior English	A/H	Full-Year	1.0	11
Senior English	A/H	Full-Year	1.0	12
Sophomore English	A/H	Full-Year	1.0	10
<b>JROTC</b>				
LET I	A	Full-Year	1.0	9 10 11 12
LET II	A	Full-Year	1.0	10 11 12
LET III	A	Full-Year	1.0	11 12
LET IV	A	Full-Year	1.0	12
<b>Mathematics</b>				
Algebra I	A/H	Full-Year	1.0	9 10 11
Algebra I Level I	A	Full-Year	1.0	9
Algebra I Level II	A	Full-Year	1.0	10
Algebra II	A/H	Full-Year	1.0	10 11 12
Calculus AB	AP	Full-Year	1.0	11 12
Calculus BC	AP	Full-Year	1.0	11 12
College Algebra	A	Full-Year	1.0	11 12
Computer Science Principles	H	Full-Year	1.0	11 12
Geometry	A/H	S1	0.5	9 10 11 12
Math Lab I	A	S1/S2	0.5	9 10 11 12
Math Lab II	A	S1/S2	0.5	9 10 11 12
Pre-Calculus	H	Full-Year	1.0	11 12
Probability and Statistics	A/H	S2	0.5	9 10 11 12
Statistics	AP	Full-Year	1.0	11 12
<b>Student Support Services</b>				
Extended Learning Center	M	Full-Year	1.0	9 10 11 12
Life Skills	M	Full-Year	1.0	9 10 11 12
Resource English	M	Full-Year	1.0	9 10 11 12
Resource Fundamentals of Math: Consumer Math Geometry Algebra	M	Full-Year	1.0	9 10 11 12
Student Exploration and Career Development	M	Full-Year	1.0	11 12

**A=Academic, H=Honors, AP=Advanced Placement, UCONN=Early College Experience**



Course Title	Level	Offered	Credit	Grade Offered
<b>Physical Education/Health</b>				
Basketball/Weight Room	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Football/CT Physical Fitness Assessment	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Lacrosse/Floor Hockey/Scooter Hockey	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Lawn Games	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Health I	A	Q1/Q2/Q3/Q4	0.25	9
Health II	A	S1/S2	0.5	10 11 12
Personal Fitness/CPR/First Aid	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Soccer/CT Physical Fitness Assessment	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Ultimate Frisbee/Team Handball	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Unified Physical Education	A	S1/S2	.5	11 12
Volleyball/Power Ball/ Whiffle Ball	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Warhawk Games	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Weight Room/Personal Fitness/CPR/First Aid	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
Yoga/Meditation	A	Q1/Q2/Q3/Q4	0.25	9 10 11 12
<b>Science</b>				
Anatomy and Physiology	A/H	Full-Year	1.0	11 12
AP Biology	AP	Full-Year	1.0	10 11 12
AP Environmental Science	AP	Full-Year	1.0	12
Biology	A/H	Full-Year	1.0	10 11 12
Chemistry	A/H	Full-Year	1.0	10 11 12
Conceptual Chemistry	A	Full-Year	1.0	11 12
Forensic Science	A	S1/S2	0.5	11 12
Genetics	A	S1/S2	0.5	11 12
Integrated Science	A/H	Full-Year	1.0	9
Kinesiology	A	S1/S2	0.5	11 12
Medical Terminology	UCONN	Full-Year	1.0	11 12
Physics	A/H	Full-Year	1.0	11 12
UCONN Chemistry	UCONN	Full-Year	1.0	11 12
<b>Social Studies</b>				
African American Experience	A	S1/S2	0.5	11 12
Caribbean Studies	A	S1/S2	0.5	11 12
Civics	A/H	S1/S2	0.5	11 12
Introduction To Human Rights	UCONN	S1/S2	0.5	11 12
Modern World History	A/H	Full-Year	1.0	9
Psychology	A	S1/S2	0.5	11 12
Sociology	A	S1/S2	0.5	11 12
Topics in Latino American History	A	S1/S2	0.5	
United States History	A/H	Full-Year	1.0	10 11 12
AP World History	AP	Full-Year	1.0	11 12
AP United States History	AP	Full-Year	1.0	11 12



Course Title	Level	Offered	Credit	Grade Offered
<b>The Arts:</b>				
<b>Performing Arts</b>				
Chamber Instrumental Ensemble	A	Full-Year	1.0	10 11 12
Concert Band I	A	Full-Year	1.0	9 10 11 12
Concert Band II	A	Full-Year	1.0	10 11 12
Concert Band III	A	Full-Year	1.0	11 12
Concert Choir I	A	Full-Year	1.0	9 10 11 12
Mixed Chorale I	A	Full-Year	1.0	10 11 12
Select Choir	A	Full-Year	1.0	10 11 12
Sound Design and Production	A	Full-Year	1.0	10 11 12
UCONN Fundamentals of Music I	UCONN	Full-Year	1.0	11 12
UCONN Fundamentals of Music II	UCONN	Full-Year	1.0	11 12
Voices of Inspiration Choir	A	Full-Year	1.0	10 11 12
<b>Visual Arts</b>				
Art I	A	S1/S2	0.5	9 10 11 12
Art II	A	S1/S2	0.5	10 11 12
Special Topics in Art	H	Full-Year/ S1/S2	0.5/1.0	11 12
Three Dimensional Art	A	Full-Year	1.0	9 10 11 12
<b>World Language</b>				
French I	A	Full-Year	1.0	9 10 11 12
French II	A/H	Full-Year	1.0	9 10 11 12
French III	A/H	Full-Year	1.0	10 11 12
French IV	A/H	Full-Year	1.0	11 12
Spanish I	A	Full-Year	1.0	9 10 11 12
Spanish II	A/H	Full-Year	1.0	9 10 11 12
Spanish III	A/H	Full-Year	1.0	10 11 12
Spanish IV	A/H	Full-Year	1.0	11 12
UCONN Spanish	UCONN	Full-Year	1.0	11 12

**A=Academic, H=Honors, AP=Advanced Placement, UCONN=Early College Experience**



# ENGLISH

## English Courses by Grade

Course Name	Levels	Available to Grades:
<b>Freshman English</b>	Academic, Honors	9
<b>Sophomore English</b>	Academic, Honors	10
<b>Junior English</b>	Academic, Honors	11
<b>AP Language and Composition</b>	Advanced Placement	11
<b>Senior English</b>	Academic, Honors	12
<b>AP Literature and Composition</b>	Advanced Placement	12

### 9<sup>th</sup> Grade English:

#### **FRESHMAN ENGLISH**

GR 9

Prerequisite: Refer to Page 12

All students are required to read grade appropriate text critically, analytically, and rhetorically. Texts include autobiographies, biographies, and speeches, poetry, novels and plays. The pacing of this course requires honors students to complete a significant amount of additional reading and writing beyond that at the academic level. Students also complete independent study projects, and develop vocabulary, grammar, and study skills. Research work is required.

**Graduation Requirements Met: English**

**NCAA Approved**

**3101**

Honors

**1.0 CREDIT**

Meets all year

#### **FRESHMAN ENGLISH**

GR 9

Prerequisite: None

All students are required to read grade appropriate text critically, analytically, and rhetorically. Texts include autobiographies, biographies, and speeches, poetry, novels and plays. Students are required to complete reading and writing assignments. Students also complete independent study projects, and develop vocabulary, grammar, and study skills.

**Graduation Requirements Met: English**

**NCAA Approved**

**3102**

Academic

**1.0 CREDIT**

Meets all year



**10<sup>th</sup> Grade English:**

**SOPHOMORE ENGLISH**

**3201**

**1.0 CREDIT**

GR 10

Honors

Meets all year

Prerequisite: Refer to Page 13

The course introduces students to the major authors, works, themes, and literary movements in America. Attention is given to the relationship between the literature and the historical, religious, and philosophical viewpoints of the various periods. Class discussions and writing assignments are designed to encourage active and critical reading, and to develop critical thinking skills. The composition portion of this course is developed around personal and objective responses to the literature with a continued emphasis on thesis development and argumentative and rhetorical writing designed to enhance student performance on the Redesigned PSAT/SAT. The pacing of this course requires honors students to complete a significant amount of reading and writing assignments beyond that required at the academic level. In conjunction with the reading and writing, student's also complete guided projects; develop vocabulary, grammar, study skills and writing. A research paper is required. This course is designed to build the foundational skills necessary for students to advance to the AP Level in their junior year.

***Graduation Requirements Met: English***

***NCAA Approved***

**SOPHOMORE ENGLISH**

**3202**

**1.0 CREDIT**

GR 10

Academic

Meets all year

Prerequisite: None

The course introduces students to the major authors, works, themes, and literary movements in America. Attention is given to the relationship between the literature and the historical, religious, and philosophical viewpoints of the various periods studied. The composition portion of this course is developed around text based responses to the literature and nonfiction text with a continued emphasis on thesis development and persuasive argumentative writing designed to enhance student performance on the Redesigned PSAT/SAT. Grammar, mechanics, and vocabulary are also emphasized. Academic students are required to complete reading and writing assignments beyond what is required at the standard level. A research paper is required.

***Graduation Requirements Met: English***

***NCAA Approved***



**11<sup>th</sup> Grade English:**

**JUNIOR ENGLISH**  
GR 11

**3301**  
Honors

**1.0 CREDIT**  
Meets all year

Prerequisite: Refer to Page 13

This course introduces students to several significant authors, works, themes, and movements in British Literature. Students will explore masterpieces—such as *Othello* and *Frankenstein*—that have changed the way we view society and ourselves, meeting legendary characters who remain vital, relevant parts of popular culture. Moreover, this course will reinforce close reading and rhetorical analysis strategies, provide explicit vocabulary instruction, and strengthen argumentative, narrative, and informational writing techniques to prepare students for the SAT, college, and career. Although the overall instructional approach is similar to what is offered at the Academic level, students in this Honors level course should expect to regularly complete additional supplemental readings and “Honors Extension” assignments.

**Graduation Requirements Met: English**  
**NCAA Approved**

**JUNIOR ENGLISH**  
GR 11

**3302**  
Academic

**1.0 CREDIT**  
Meets all year

Prerequisite: None

This course introduces students to several significant authors, works, themes, and movements in British Literature. Students will explore masterpieces—such as *Othello* and *Frankenstein*—that have changed the way we view society and ourselves, meeting legendary characters who remain vital, relevant parts of popular culture. Moreover, this course will reinforce close reading and rhetorical analysis strategies, provide explicit vocabulary instruction, and strengthen argumentative, narrative, and informational writing techniques to prepare students for the SAT, college, and career. Students hoping to broaden their learning are invited to read supplemental texts and complete “Honors Extension” assignments for extra credit.

**Graduation Requirements Met: English**  
**NCAA Approved**





**AP LANGUAGE AND COMPOSITION**

**3911**

**1.0 CREDIT**

GR 11

Advanced Placement

Meets all year

Prerequisite: Refer to Page 13

In addition to preparing students for the AP English Language and Composition Exam, English 11 Advanced Placement Language and Composition is a rigorous college-level course designed to engage highly motivated English students in close reading and rhetorical analysis through an intensive study of mostly nonfiction works. The reading is challenging and the writing is frequent because this is a composition course that requires an independent critical mind which will develop over the course of the class. There will be many independent assignments outside of class. Students are expected at this level to participate effectively and repeatedly in these demanding educational activities. Students will produce synthesis, analytical, and argumentative compositions that introduce a complex central idea and develop it with appropriate evidence drawn from primary and/or secondary sources, cogent explanations, and clear transitions. Research as well as group presentations are a course requirement. Summer reading and an accompanying packet is a course requirement and will be due on the first day of school. Failure to turn in the assignment will require withdrawal from the course. **Taking the AP Exam in May is a requirement for taking this course.** Depending on how you score on the AP Exam, this course could earn you the equivalent of 3 English college credits.

*Graduation Requirements Met: English  
NCAA Approved*

**12<sup>th</sup> Grade English:**

**SENIOR ENGLISH**

**3401**

**1.0 CREDIT**

GR 12

Honors

Meets all year

Prerequisite: Refer to Page 13

Students study literature, writing, vocabulary and grammar. Students CLOSE read and analyze poetry, plays, short stories, and supplement those readings with novels and other works. In addition, this course focuses on the literary traditions among African/Americans and places those traditions in their historical and world context. Students study the literature from a variety of critical approaches including structural, cultural, archetypal, psychological, and philosophical. Most of the writing is expository, analytical and argumentative in nature. A formal research paper is required. Although the instructional approach is similar to that offered on the academic level, students who elect the honors course should expect to participate effectively in advanced, demanding, educational activities, and to read additional works beyond what is read at the academic level.

*Graduation Requirements Met: English  
NCAA Approved*



**SENIOR ENGLISH**

**3402**

**1.0 CREDIT**

GR 12

Academic

Meets all year

Prerequisite: None

Students study literature, writing, vocabulary and grammar. Students CLOSE read and analyze poetry, plays, short stories, and supplement those readings with novels and other works. In addition, this course focuses on the literary traditions among African/Americans and places those traditions in their historical and world context. Students study the literature from a variety of critical approaches including structural, cultural, archetypal, psychological, and philosophical. Most of the writing is expository, analytical and argumentative in nature. A formal research paper is required. Academic students are required to complete additional reading and writing beyond what is required at the standard level.

***Graduation Requirements Met: English***

***NCAA Approved***

**AP ENGLISH LITERATURE AND COMPOSITION**

**3411**

**1.0 CREDIT**

GR 12

Advanced Placement

Meets all year

Prerequisite: Refer to Page 13

As a College Board approved course, AP English Literature and Language is a rigorous course which requires extensive reading and critical analyses of works of various genres, which represent the Western literary canon from the fifteenth through the twentieth century, including major American and European writers, as well as acclaimed contemporary writers. The reading is challenging, the writing is frequent, and oral presentation is mandated. Moreover, students are expected to learn from their peers, as they work in small groups to share, debate and present their ideas about literature.

By signing up for this course, you are making a serious commitment to reading, discussing, and writing about literature. This commitment confirms that you share a passion with your peers for intensely reading literature with attention to the writer's craft, intensely analyzing/interpreting the ideas put forth by that literature as well as the nuances of great literature, intensely discussing the ideas of the literature, and intensely writing about your experiences and evaluations of the literature. Summer reading and an accompanying packet is a course requirement and will be due on the first day of school. Failure to turn in the assignment will require withdrawal from the course. **Taking the AP Exam in May is a requirement for taking this course.** Depending on how you score on the AP Exam, this course could earn you the equivalent of 3 English college credits.

***Graduation Requirements Met: English***

***NCAA Approved***



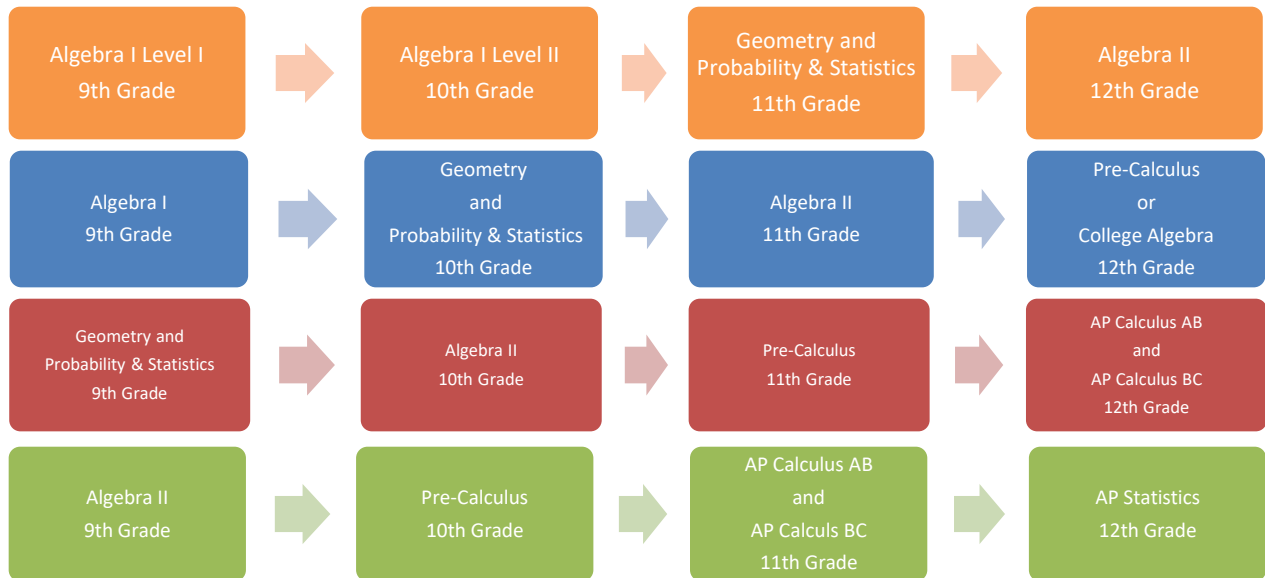


# MATHEMATICS

## Math Courses by Grade

Course Name	Levels	Available to Grades:
<b>Algebra I</b>	Academic, Honors	9-11
<b>Algebra I Level I</b>	Academic	9
<b>Algebra I Level II</b>	Academic	10
<b>Geometry</b>	Academic, Honors (1/2 year)	9-12
<b>Probability and Statistics</b>	Academic, Honors (1/2 year)	9-12
<b>Algebra II</b>	Academic, Honors	10-12
<b>Pre-Calculus</b>	Honors	11-12
<b>AP Statistics</b>	Advanced Placement	11-12
<b>College Algebra Mathematics</b>	Academic	11-12
<b>AP Calculus AB/BC</b>	Advanced Placement	11-12
<b>Computer Science Principles</b>	Honors	11-12

## Recommended Mathematics Sequences:





**ALGEBRA I**

**6112**

**1.0 CREDIT**

GR 9

Academic

Meets all year

Prerequisite: Pre-Algebra or Foundations of Mathematics

The algebra I curriculum has been designed to captivate the mind of the new-age student in relevant, interesting, and meaningful learning opportunities. Students will be able to analyze, interpret and communicate information in a variety of formats to prepare them for college and high stakes assessments. Each student will problem solve creatively and logically while collaborating with others. By the end of the year students will have a strong foundation in concepts involving linear functions.

***Graduation Requirements Met: Mathematics, S.T.E.M. Elective***

***NCAA Approved***

**ALGEBRA I**

**6111**

**1.0 CREDIT**

GR 9

Honors

Meets all year

Prerequisite: Pre-Algebra or Foundations of Mathematics

The algebra I honors curriculum has been designed to captivate the mind of the new-age student in relevant, interesting, and meaningful learning opportunities. Students will be able to analyze, interpret and communicate information in a variety of formats to prepare them for college and high stakes assessments. Each student will problem solve creatively and logically while collaborating with others. By the end of the year students will have a strong foundation in concepts involving linear functions, quadratics and an introduction to exponential functions.

***Graduation Requirements Met: Mathematics, S.T.E.M. Elective***

***NCAA Approved***

**ALGEBRA LEVEL 1**

**6032**

**1.0 CREDIT**

GR 9

Academic

Meets all year

Prerequisite: Pre-Algebra or Foundations of Mathematics

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; apply the Pythagorean Theorem; and utilize the Problem Solving Matrix to solve real-world problems. This class spends more time on prerequisite skills necessary to master more complex mathematical content to be taught throughout high school.

***Graduation Requirements Met: Mathematics, S.T.E.M. Elective***

***\*Not NCAA Approved***



**ALGEBRA LEVEL 2**

**6042**

**1.0 CREDIT**

GR 10

Academic

Meets all year

Prerequisite: Algebra Level 1

Students will be able to analyze, interpret and communicate information in a variety of formats to prepare them for college and high stakes assessments. Each student will problem solve creatively and logically while collaborating with others. By the end of the course students will have a strong foundation in concepts involving linear functions.

**Graduation Requirements Met: Mathematics, S.T.E.M. Elective**

**\*Not NCAA Approved**

**GEOMETRY**

**6232**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 year

Prerequisite: Algebra I

This course is designed to integrate mathematics of measurement, algebra, and coordinate geometry. Geometric properties are developed through investigations and practical applications with an emphasis in problem solving.

**Graduation Requirements Met: Mathematics, S.T.E.M. Elective**

**NCAA Approved**

**GEOMETRY**

**6211**

**0.5 CREDIT**

GR 9-12

Honors

Meets 1/2 year

Prerequisite: B or better in Algebra I

This course is designed to integrate mathematics of measurement, algebra, and coordinate geometry. Geometric properties are developed through investigations and practical applications with an emphasis in problem solving. The honors section covers all topics in the academic section with additional topics including but not limited to formal geometric proofs and transformations.

**Graduation Requirements Met: Mathematics, S.T.E.M. Elective**

**NCAA Approved**

**PROBABILITY AND STATISTICS**

**6242**

**1.0 CREDIT**

GR 9-12

Academic

Meets all year

Prerequisite: Algebra 1

This course provides an introduction to probability, and statistics with applications. Topics include: elementary probability, sampling distributions, analysis of variance, regression and correlation, exploratory data analysis, expected value and combinations. The goal of this course is for students to be statistically literate in today's data-driven society.

**Graduation Requirements Met: Mathematics, S.T.E.M. Elective**

**NCAA Approved**



**PROBABILITY AND STATISTICS**

**6241**

**1.0 CREDIT**

GR 9-12

Honors

Meets all year

Prerequisite: B or better in Algebra 1

This course provides an introduction to probability, and statistics with applications. Topics include: elementary probability, sampling distributions, analysis of variance, regression and correlation, and exploratory data analysis. The goal of this course is to make students statistically literate for today's data-driven society and be prepared to take the AP Statistics course in subsequent years.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**ALGEBRA II**

**6302**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: Algebra I (Geometry and/or Probability and Statistics may be taken concurrently with Algebra II)

This course extends the topics taught in Algebra I. Study is made of functions (linear, quadratic, absolute value, exponential, logarithmic, and power), and the operation of functions and their composition. Problem solving and practical applications are emphasized.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**ALGEBRA II**

**6301**

**1.0 CREDIT**

GR 10-12

Honors

Meets all year

Prerequisite: B or better Algebra I (Geometry and/or Probability and Statistics may be taken concurrently with Algebra II)

This course extends the topics taught in Algebra I. Study is made of functions (linear, quadratic, absolute value, exponential, logarithmic, and power), and the operation of functions and their composition. Problem solving and practical applications are emphasized.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**COLLEGE ALGEBRA**

**6402**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Algebra II

College Algebra will reinforce Algebra II with additional topics to include trigonometry, rational expressions, logarithms and additional topics. The goal of this course is to further prepare students for the Accuplacer and college level mathematics.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**PRE-CALCULUS**

**6412**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Algebra II

This course is designed for a student who will use mathematics in his or her career. The purpose of this course is to prepare students for the study of calculus. The topics covered will include the rigorous study of functions (polynomials, exponential, logarithmic, and rational), trigonometry.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*



**PRE-CALCULUS**

**6411**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: Algebra II and teacher recommendation

This course is designed for a student who will use mathematics in his or her career. The purpose of this course is to prepare students for the study of calculus. The topics covered will include the rigorous study of functions (polynomials, exponential, logarithmic, and rational), trigonometry.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**AP STATISTICS**

**6312**

**1.0 CREDIT**

GR 11-12

Advanced Placement

Meets all year

Prerequisite: Algebra II and teacher recommendation

This course explores the major concepts and mathematical practices for collecting, analyzing, and drawing conclusions from data with an emphasis on real world application. This course develops appreciation for and skill in applying statistical techniques in the decision-making process. Students will be taught to interpret categorical and quantitative data to make inferences and justify conclusions.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**AP CALCULUS AB**

**6421**

**2.0 CREDIT**

GR 11, 12

Advanced Placement

Meets all year

Prerequisite: 500 Math PSAT or SAT, Pre-Calculus Honors with a minimum 3.6 GPA

AP Calculus is an advanced placement course which allows students to earn college credit if they pass the AP exam in May. Calculus AB introduces students to limits, derivatives, integrals and all of their applications.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*

**AP CALCULUS BC**

**6441**

**1.0 CREDIT**

GR 12

Advanced Placement

Meets all year

Prerequisite: Calculus AB Score of 4 or 5

Calculus BC covers all the topics of Calculus AB and additional topics including Taylor Series, parametric equations, polar equations, and the convergence/divergence of series and sequences.

*Graduation Requirements Met: Mathematics, S.T.E.M. Elective*

*NCAA Approved*



**COMPUTER SCIENCE PRINCIPLES (CSP)**  
**GR 11-12**

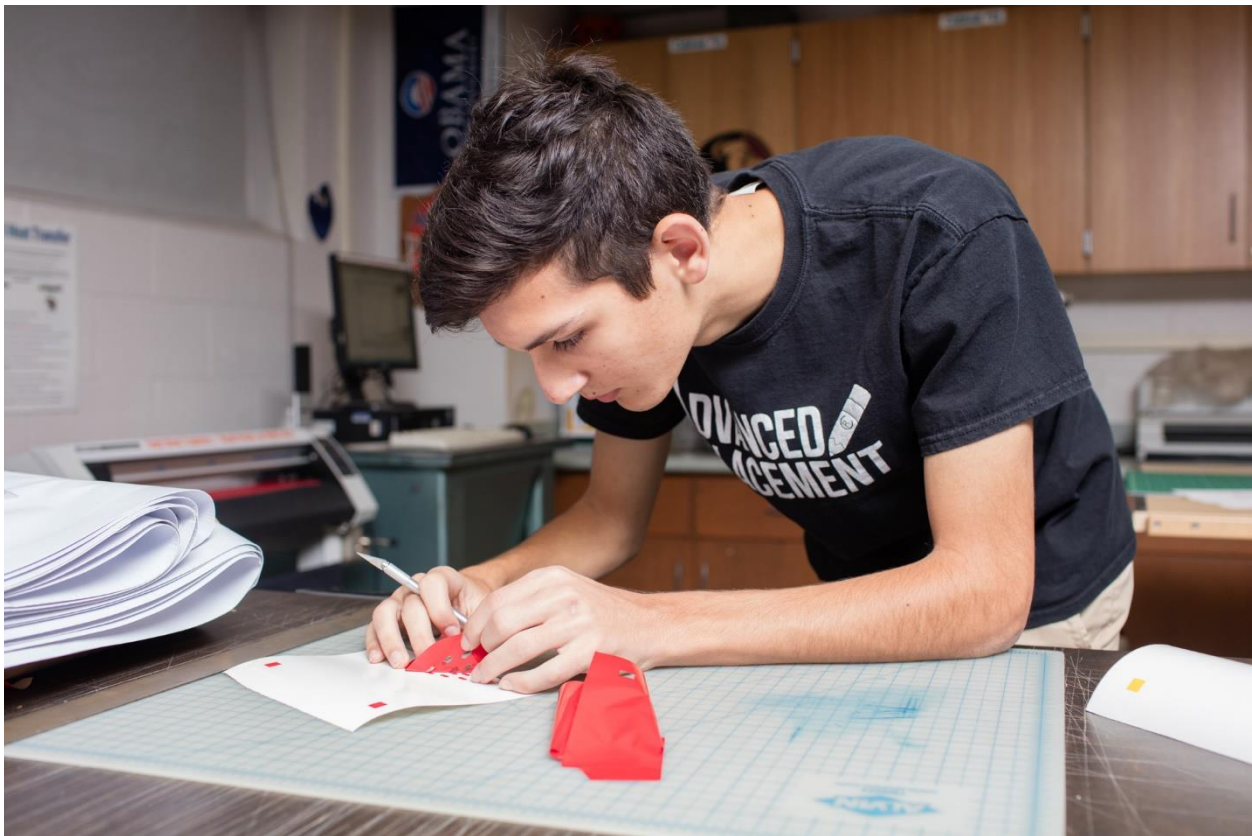
**7301**  
**Honors/AP**

**1.0 Credit**  
**Meets all year**

Prerequisite: Algebra 1

The full year Mobile Computer Science Principles course provides an introduction to the basic principles of computer science (CS) from the perspective of mobile computing, including programming in App Inventor II, a graphical programming language for Android mobile devices. The lessons and materials used by students incorporate programming while also integrating the CSP big ideas: creativity, abstraction, data and information, algorithms, the internet and global impact. The curriculum is all online and for successful completion of the course participants need to maintain an online portfolio.

***Graduation Requirements Met: Mathematics, S.T.E.M. Elective, Elective***  
***NCAA Approved***



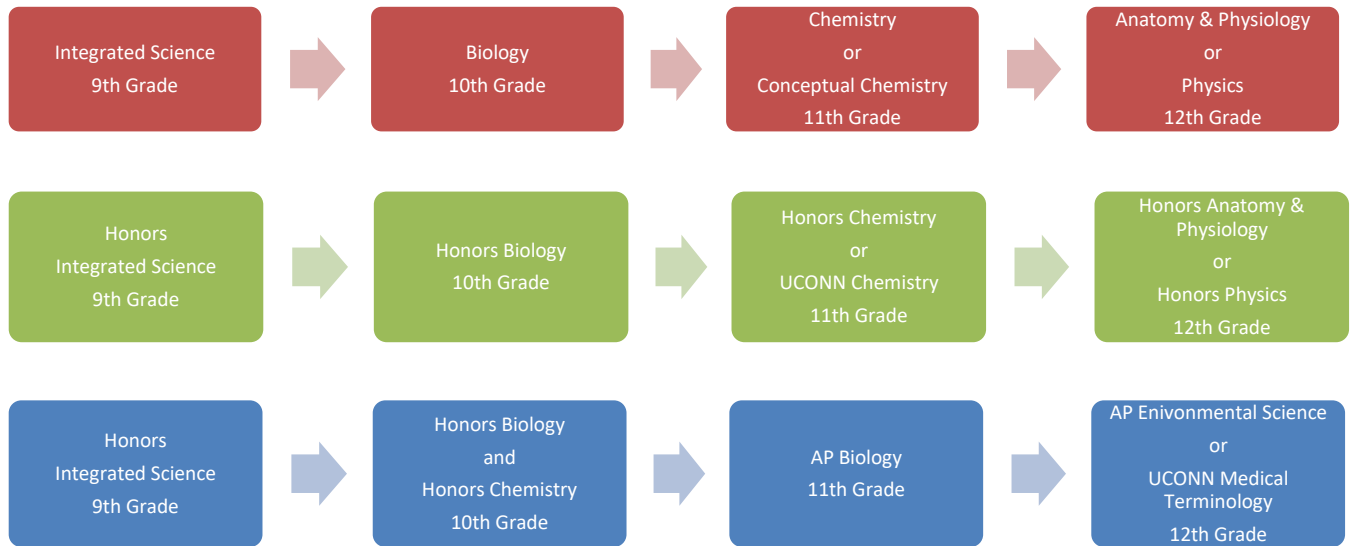


# SCIENCE

## Science Courses by Grade

Course Title	Levels	Available to Grades:
<b>Integrated Science</b>	Academic, Honors	9
<b>Biology</b>	Academic, Honors	10-12
<b>AP Biology</b>	Advanced Placement	10-12
<b>Conceptual Chemistry</b>	Academic	11-12
<b>Chemistry</b>	Academic, Honors	10-12
<b>UCONN Chemistry</b>	UCONN ECE	11-12
<b>Physics</b>	Academic, Honors	11-12
<b>Anatomy &amp; Physiology</b>	Academic, Honors	11-12
<b>AP Environmental Science</b>	Advanced Placement	12
<b>Forensic Science</b>	Academic (1/2 year)	11-12
<b>Kinesiology</b>	Academic (1/2 year)	11-12
<b>Genetics</b>	Academic (1/2 year)	11-12
<b>Medical Terminology</b>	UCONN ECE	11-12

### Recommended Science Sequences:





**INTEGRATED SCIENCE**

**7102**

**1.0 CREDIT**

GR 9

Academic

Meets all year

Prerequisite: None

Integrated Science will introduce the students to the fundamental laws and principles of earth and physical sciences which govern our universe. Students will be encouraged to reason, predict, analyze, and draw conclusions based on experimental observations. They will also explore the relationships between science, technology, and society. Concepts will include: the universe, solar system, Earth's history and interactions and human sustainability.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**INTEGRATED SCIENCE**

**7101**

**1.0 CREDIT**

GR 9

Honors

Meets all year

Prerequisite: Recommendation from previous science teacher.

Honors Integrated Science is a course designed for students who demonstrate high academic achievement and motivation in science and mathematics. In addition, a student enrolling in this course should have a recommendation from their current science teacher. Integrated Science will introduce the students to the fundamental laws and principles of earth, and physical sciences which govern our universe. Students will be encouraged to reason, predict, analyze, and draw conclusions based on experimental observations. They will also explore the relationships between science, technology, and society. Concepts will include: the universe, solar system, Earth's history and interactions and human sustainability.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**BIOLOGY**

**7202**

**1.0 CREDIT**

GR 10

Academic

Meets all year

Prerequisite: None

Biology is a survey course studying the fundamental properties and relationships of living organisms. Topics to be studied will include biochemistry, cellular structure and function, genetics, taxonomy, evolution, ecology, and related concepts in earth science. Practical laboratory exercises following the scientific method will provide students with experiences in biological problem solving and enhance their critical thinking skills. These exercises are designed to reinforce the material taught and discussed in class.

***Graduation Requirements Met: Science***

***NCAA Approved***





**BIOLOGY**

**7201**

**1.0 CREDIT**

GR 10

Honors

Meets all year

Prerequisite: Teacher Recommendation

A course designed for students who demonstrate high academic achievement and motivation. A student enrolling in this course should have an academic record showing high aptitude in mathematics and science and a recommendation from their previous science teacher. Topics to be studied will include biochemistry, bioengineering, DNA structure, cell division, cellular structure and function, ecology, evolution, genetics, microorganisms and taxonomy. These topics will be covered in greater depth and at a more rapid pace than in Biology. Practical laboratory exercises following the scientific method will provide students with experiences in biological problem solving and enhancement of critical thinking skills. The laboratory program reinforces classroom material, teaches varied scientific techniques, and emphasizes scientific inquiry.

*Graduation Requirements Met: Science*

*NCAA Approved*

**CHEMISTRY**

**7702**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: "C" or better in Algebra I

This course deals with the chemical nature of matter including the classification and the structure of matter, the mole concept, chemical reactions, gas laws, solutions and energy. Considerable time is spent on quantitative concepts in chemistry and therefore expertise with basic math principles such as graphing, proportions, and the use of exponents is desirable. Students will be required to analyze their data and draw conclusions based on observations made during demonstrations or experiments.

*Graduation Requirements Met: Science, S.T.E.M. Elective*

*NCAA Approved*

**CHEMISTRY**

**7701**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: "B" or better in Algebra I and teacher recommendation

This is an introductory course in inorganic chemistry. Content includes problem solving using dimensional analysis, the electrical nature of matter, chemical bonding, the mole concept, oxidation-reduction, gas laws, the nature of solutions, acids, and bases. Laboratory investigations emphasize qualitative and quantitative analysis with the goal of enriching student understanding of each topic being studied.

*Graduation Requirements Met: Science, S.T.E.M. Elective*

*NCAA Approved*



**UCONN CHEMISTRY**

**7992**

**1.0 CREDIT**

GR 11-12

UCONN ECE

Meets all year

Prerequisite: "B" or better in Honors Biology and teacher recommendation

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Quantitative measurements illustrating the laws of chemical combination in the first semester lab.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**PHYSICS**

**7712**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: C or better in Algebra II, Geometry, and Probability and Statistics

This course for juniors and seniors will fulfill college admission requirements for students wishing to pursue a career in science or a science-related field. The course requires students to use critical thinking skills, algebra, and trigonometry when solving real world physics problems. The primary focus of the course is kinematics and energy, including the following topics; motion and forces, conservation of energy and momentum, gravitation, simple harmonic motion, waves, sound, heat and thermodynamics. To be successful in this course, students must be self-motivated and demonstrate consistent effort.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**PHYSICS**

**7411**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: Algebra II, Geometry, Probability and Statistics, and teacher recommendation. A student must be enrolled in or have taken Pre-Calculus.

This course for juniors and seniors will fulfill college admission requirements for students wishing to pursue a career in science or a science-related field. This course requires students to use critical thinking skills, algebra, and trigonometry when solving real world physics problems. The primary focus of the course is kinematics and energy, including the following topics; motion and forces, conservation of energy and momentum, gravitation, simple harmonic motion, waves, sound, heat and thermodynamics. To be successful in this course, students must be self-motivated and demonstrate consistent effort.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***



**ANATOMY & PHYSIOLOGY**

**7732**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: C- or better in Biology and in Chemistry/Conceptual Chemistry and teacher recommendation.

The purpose of this course is to provide the student with an opportunity to develop an understanding and appreciation of man as an organism, interdependent upon other organisms, and adapted for change in a constantly changing biological, chemical, and physical environment. Anatomy and Physiology surveys the eleven systems of the human body. Laboratory experiences will be an integral component of this course. This course should be of practical interest to students who plan to pursue a career in allied health or the medical field.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**ANATOMY & PHYSIOLOGY**

**7731**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: B- or better in Biology, C- or better in Chemistry/Conceptual Chemistry and teacher recommendation.

The purpose of this course is to provide the student with an opportunity to develop an understanding and appreciation of man as an organism, interdependent upon other organisms, and adapted for change in a constantly changing biological, chemical, and physical environment. Anatomy and Physiology surveys the eleven systems of the human body. This course places emphasis on individual work and moves at a brisk pace. Laboratory experiences will be an integral component of this course. This course should be of practical interest to students who plan to pursue a career in allied health or the medical field.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***

**FORENSIC SCIENCE**

**7772**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: Biology and Chemistry

This elective course will focus on various aspects of forensic science and modern criminal investigation analysis. This course is designed for students who have successfully completed biology and chemistry. The curriculum will be designed with laboratory experiments, so the students can get exposure to real forensic science. Students will develop their critical thinking and observational skills as they progress through this one semester course. Since the science of forensics is a vast and ever-advancing, this course will cover a broad range of topics including crime scene documentation. The emphasis of this course is for students to deepen their understanding of science by applying scientific concepts in the laboratory and in case studies. Students will see science as a dynamic process rather than a mere accumulation of facts.

***Graduation Requirements Met: Science, S.T.E.M. Elective***

***NCAA Approved***



**AP BIOLOGY**

**7711**

**2.0 CREDIT**

GR 11-12

Advanced Placement

Meets all year

Prerequisite: B– or better in Honors Biology, Honors Chemistry, teacher approval and PSAT/SAT scores of 1000 or higher

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. All students are expected to take the AP Biology exam and will receive 8 college credits upon successful completion on the AP exam. This course is offered on alternating years.

**Graduation Requirements Met: Science, S.T.E.M. Elective**  
**NCAA Approved**

**AP ENVIRONMENTAL SCIENCE**

**7001**

**1.0 CREDIT**

GR 12

Advanced Placement

Meets all year

Prerequisite: B or better in Chemistry and Biology and teacher recommendation

The AP Environmental Science course is a full-year course designed to be the equivalent of a one-semester, introductory college course in environmental science. The AP Environmental Science course has been developed to be a rigorous science course that stresses scientific principles and analysis and includes a significant laboratory component. The content of the course reflects what is found in many introductory college courses in environmental science. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, to evaluate the relative risks associated with these problems, to examine alternative solutions for resolving and/or preventing them, and to develop and focus their own political perspective. This course is offered on alternating years.

**Graduation Requirements Met: Science, S.T.E.M. Elective**  
**NCAA Approved**

**CONCEPTUAL CHEMISTRY**

**7842**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Biology, Teacher recommendation

Chemistry is the scientific study of the interactions of matter. The Conceptual Chemistry course is a practical, non-quantitative chemistry course designed for students who desire an understanding of chemical concepts and applications. It is an interdisciplinary science which covers topics including: matter, atomic structure, the periodic table, bonding, and chemical reactions. In this class we will learn the basics of chemistry, develop laboratory skills, and promote student interest in the sciences.

**Graduation Requirements Met: Science, S.T.E.M. Elective**  
**NCAA Approved**



**KINESIOLOGY**

**7822**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: Biology, Teacher recommendation

This course will introduce students to the mechanics of body movement and how it relates to sports. Students will gain an understanding for how sports relate to optimal performance, through an in-depth study of the muscular system on the cellular level which will include nutrition, the respiratory system, and the circulatory system. There will also be an opportunity to investigate various careers in the field of kinesiology.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**NCAA Approved**

**GENETICS**

**7812**

**0.5 CREDIT**

GR 12

Academic

Meets 1/2 year

Prerequisite: Biology, Teacher recommendation

This course discusses the principles of genetics with application to the study of biological function at the level of molecules, cells, and multicellular organisms, including humans. Active investigations include extracting and spooling DNA, and crossing strains of different-colored yeast. Modeling activities help conceptualize how genes code for proteins and how they are expressed, how DNA structure allows replication, and how traits and genetic diseases are inherited. Group discussions about genetic testing, GM foods and biotechnology highlight how advances in genetics are impacting society.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**NCAA Approved**

**MEDICAL TERMINOLOGY**

**7221**

**1.0 CREDIT**

GR 11-12

UCONN ECE

Meets all year

Prerequisite: Integrated Science, Biology (Grade of B or Better) and Teacher Recommendation

This course is intended for students interested in obtaining a knowledge and understanding of basic medical terminology as the language of health care professions. Students will learn medical terminology through presentation of word roots, prefixes, and suffixes as they pertain to each body system, cancer, radiology/nuclear medicine, and pharmacology. The structure, function, and pathologies, including associated test and procedures, of each body system will be studied. Correct spelling, forming singulars and plurals, understanding definitions, and using medical terms correctly are important components of the course. This course is especially useful for student interested in health professionals and is a dual enrollment course in which students will enroll at UCONN to earn two credits.

As a college level course, students will be expected to adhere to the guidelines in the syllabus for this course, as if they were in college.

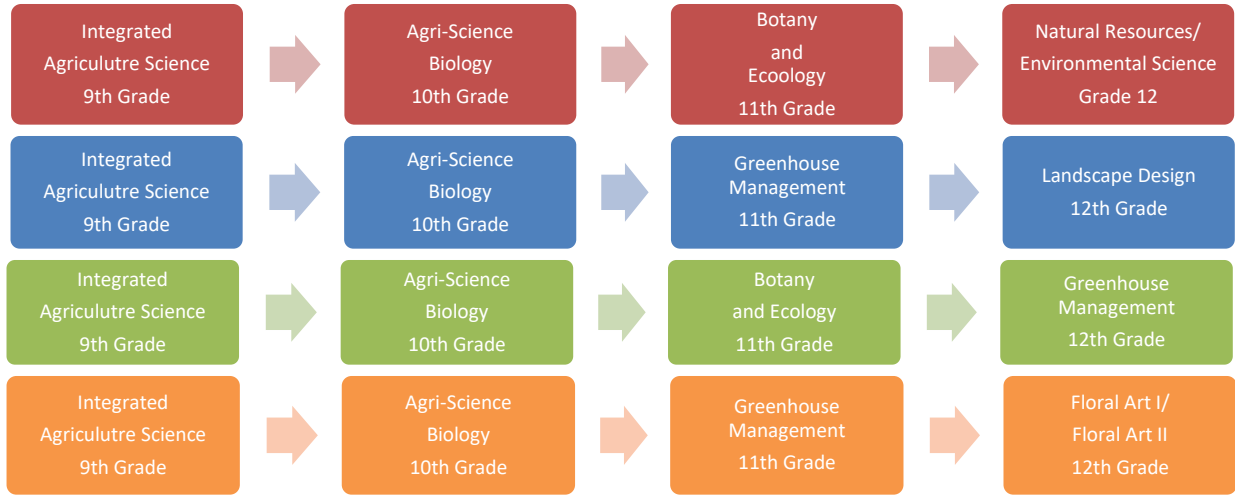
**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

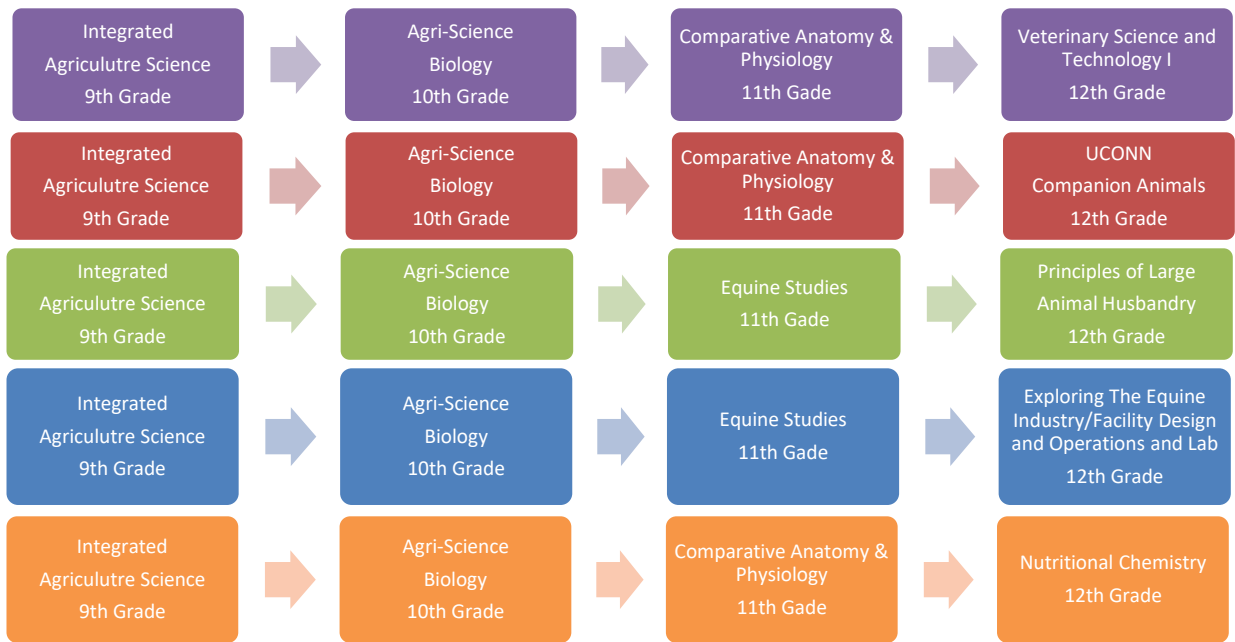


# AGRISCIENCE

## Recommended Plant Track Sequences:

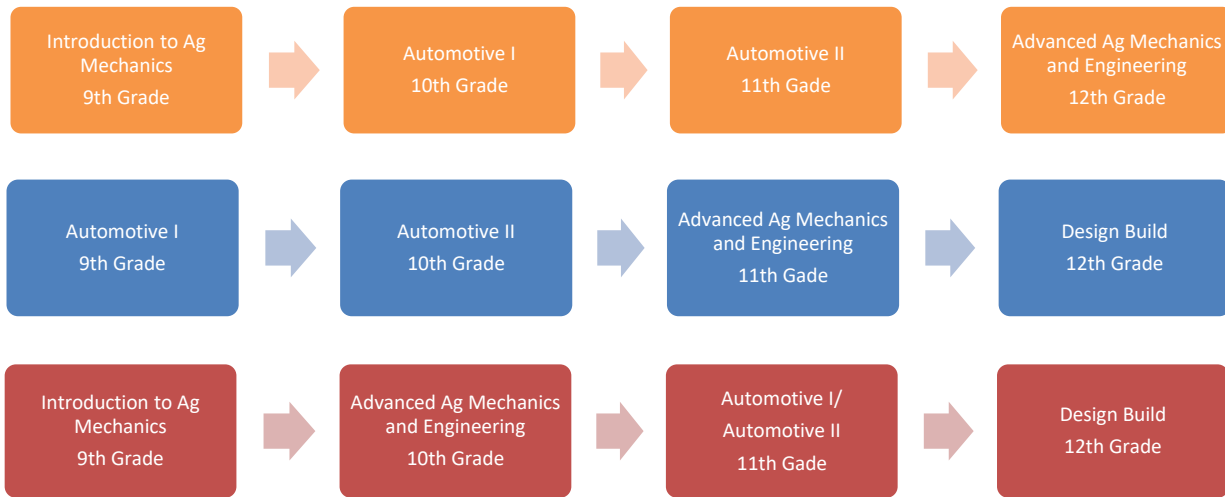


## Recommended Animal Track Sequences:





**Recommended Automotive/Ag Mechanics Track Sequences:**



**INTEGRATED AGRICULTURE SCIENCE**

**7502**

**1.0 CREDIT**

GR 9-11

Academic/Honors

Meets all year

Prerequisite: None

This introductory course is exploratory in nature and serves as the foundation for advanced courses in animal science, plant science, natural resources, aquaculture, and agricultural systems technology (hydroponics and aquaponics). Agricultural literacy integrates energy transforms, electricity, physical and earth sciences and is accomplished through classroom instruction, hands on learning, research-based projects in science, applied learning in the laboratory and through the Supervised Agricultural Experience program and the FFA.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**AGRICULTURAL BIOLOGY**

**7212**

**1.0 CREDIT**

GR 10-12

Academic/Honors

Meets all year

Prerequisite: None

Ag biology is designed to reinforce and extend a student’s understanding of agriculture by associating basic biological principles and concepts with relevant applications in agriculture. The topics covered include biochemistry, cellular structure and function, genetics, taxonomy, evolution, ecology, and related concepts in earth science. Inquiry laboratory exercises will provide students with opportunities to apply biological problem solving and critical thinking skills to modern agricultural problems. Because FFA and SAE are integral components of this course, students are encouraged to maintain SAE’s and participate actively in FFA. Grades will be based on assignments, lab reports, other projects, quizzes and tests.

**The Agricultural Biology Course Fulfills the Bloomfield High School Biology Requirement.**

**Graduation Requirements Met: Science**

**NCAA Approved**



**NATURAL RESOURCES/**

**ENVIRONMENTAL SCIENCE**

**7602**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: Ag Biology/Biology, Algebra I, & teacher recommendation.

Environmental Science is the study of the components of our surroundings, both living and nonliving, and the interactions of these components. This course is designed to help a student gain a greater understanding of many of the more specific concepts incorporated in this definition, and how humans interact with these various components of the environment. As a participant in this class, you will develop skills in observation and in objective analysis, scientific inquiry, and in oral and written communications. This course requires that a student take part in all field studies, and be able to complete an extensive amount of reading and writing.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**NCAA Approved**

**UCONN HORTICULTURE**

**7552**

**1.0 CREDIT**

GR 11-12

UCONN

Meets all year

Prerequisite: Instructor's consent required.

This introductory course fuses the outdoors, plants, and landscapes and an eye for design with an emphasis on exploring a career in landscape design. Through this course students will be introduced to the art, aesthetics and science of residential and commercial landscape design and contracting while learning how to select, grow, and maintain flowers, trees, shrubs, and ground covers. In addition the student will be able calculate cost estimates relative to landscape contracting, design a plan and install structures within the school and community.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**COMPARATIVE ANATOMY AND PHYSIOLOGY**

**7652**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite:

This course is designed to cover various topics in the animal industry and the importance of animals in our lives. Topics will include: apiculture, animal nutrition/digestion, canines, livestock, equines, biosecurity, reproduction, diseases/parasites, animal communication and products.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*NCAA Approved**

**VETERINARY SCIENCE & TECHNOLOGY**

**7741**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: Biology, and Algebra I

The focus of this course is on the biological and commercial aspects of veterinarian science. This course is recommended for students considering a career in the veterinarian field or related entrepreneurial areas concerned with the care, breeding and management of animals. This course will combine theory and practice. Students will become knowledgeable about members of the animal kingdom through units on anatomy, physiology and classification. Students will also identify animal diseases, parasites, animal behavior and perform clinical exams.

**Graduation Requirements Met: Science, S.T.E.M. Elective \*Not NCAA Approved**





**UCONN COMPANION ANIMALS**

**7011**

**1.0 CREDIT**

GR 11-12

UCONN ECE

Meets all year

Prerequisite: B or better in Comparative Anatomy and Physiology or Teacher Recommendation  
This class covers the basic concepts of the nutrition, physiology, health and management of companion animals. Students who successfully complete this class can earn three college credits.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**UCONN FLORAL ART I**

**7013**

**1.0 CREDIT**

GR 11-12

UCONN ECE

Meets 1/2 year

Prerequisite: Permission of Instructor Required

The study of flower arrangement as an art form with emphasis on historical background, artistic principles, color harmony and care of perishable media. Individual expression is encouraged in the creation of floral composition.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**UCONN FLORAL ART II**

**7051**

**0.5 CREDIT**

GR 11-12

UCONN ECE

Meets 1/2 year

Prerequisite: UCONN Floral Art I

In-depth study of post-harvest requirements for specialized floral crops. Exposure to novel floral materials and abstract, tribute, high-style, and wedding designs. Retail price structuring, wire services, and mass-production concepts.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**GREENHOUSE MANAGEMENT**

**7532**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Biology and Algebra I

This upper level Plant Science course is about environmental factors regulated in a greenhouse and management of a greenhouse business. This course helps to prepare students for a career in management of commercial greenhouses, conservatories, and institutional greenhouses. Topics will include principles of greenhouse operation and management for commercial production of floral crops; greenhouse construction and operation; regulating and controlling the environment and applying cultural practices as they affect plant physiological processes and influence plant growth and development; management of a greenhouse business.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**





**ECOLOGY**

**7032**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: Agricultural Biology and Permission of the Instructor

To introduce students to the basic ideas about function and evolution of the plant kingdom as reflected in their structure and to provide them with the basic skills in technical plant collection and identification. Field Ecology and Taxonomy is an opportunity to get outside and look closely at nature by learning the plants commonly grown on campus and found in our local community. This class will focus primarily on trees and shrubs, but may also learn about some common herbaceous flowering plants. Each day of class, with the exception of exam days, will include time to review the plants learned up to that point followed by a quiz, then a walk on campus to learn 10-15 new species. Any time left over will allow students to make an individual collection to study from. Students will learn to recognize each plant both from cuttings and in situ, and recall the family, genus, species and common name for each plant. Be prepared each day for the weather, as we will likely go out in rain and snow on some days.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**NCAA Approved**

**BOTANY**

**7232**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: Agricultural Biology

Botany is an introductory course in plant biology. Topics to be covered are the structure and function of plant cells, tissues, and organs such as roots, stems, leaves, and flowers; concepts of biological evolution and classification; the diversity of plants and plant-like organisms, genetics, and ecology.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**NCAA Approved**

**NUTRITIONAL CHEMISTRY**

**7122**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: B or Better in Biology and Chemistry

This course is designed to provide students with the knowledge and skills that will enable them to understand and explain the basic principles of food processing and marketing. Students will learn to conduct sensory evaluations, to interpret a nutrition label to create food products, to examine safety and sanitation procedures and to understand how products are marketed to consumers. The examination of current trends and new technologies in the food science industry will be included.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**PRINCIPLES OF LARGE ANIMAL HUSBANDRY**

GR 11-12

**7152**

**1.0 CREDIT**

Academic

Meets all Year

Prerequisite: None

This course provides an overview of basic practices and skills used in the livestock industry. Students will learn livestock care, food production, industry jobs, leadership and business applications will also be included.

**Graduation Requirements Met: Science, S.T.E.M. Elective \*Not NCAA Approved**



**EQUINE STUDIES**

**7242**

**1.0 CREDIT**

GR 11-12

POST

Meets all Year

Prerequisite: None

This course is designed to cover various topics in the equine industry and the importance of their overall needs and advantages in society. Topics will include: history, equine nutrition/digestion, reproduction, diseases/parasites, animal communication and products.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**EXPLORING THE EQUINE INDUSTRY**

**7162**

**0.5 CREDIT**

GR 11-12

POST

Meets 1/2 Year

Prerequisite: Equine Studies

Horses are at the center of a powerful agricultural industry, with direct, indirect and induced spending totaling over \$100 billion dollars each year. This course looks closely at this industry and explores the equestrian culture that surrounds it. Students examine the roles of horses and other equines in our society, the duty of care placed on owners and caretakers, and the impact of the industry on land stewardship. Current events, various values systems, animal rights and welfare, and the history and future of the industry are all considered.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**FACILITY DESIGN AND OPERATIONS W/LAB**

**7172**

**0.5 CREDIT**

GR 11-12

POST

Meets 1/2 Year

Prerequisite: Equine Studies

This course examines the planning, construction, maintenance, and operation of equestrian facilities. Barn placement, design, and layout are covered in detail, considering such factors as environmental concerns, drainage, ventilation, efficiency, safety and fire prevention, pastures, fencing, maintenance procedures, and purchasing and storing of feed. Also covered are record keeping, insurance requirements, and selection, training, and management of staff.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**AUTOMOTIVE I**

**7952**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 Year

Prerequisite: None

This course will focus on the acquisition of basic automotive mechanical skills and knowledge related to the automotive industry. Emphasis is on giving students a thorough understanding of auto shop safety rules and procedures, developing the skills necessary to properly use common automotive hand tools and equipment. The students will understand how an automotive repair facility operates and the career opportunities that are available after graduation. Students are given a basic understanding of automotive systems, how they function and the steps necessary to diagnose and repair them.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**



**AUTOMOTIVE II**

**7962**

**0.5 CREDIT**

GR 10-12

Academic

Meets 1/2 Year

Prerequisite: Automotive I

This course is a continuation of the automotive course, where students will be able to build on the knowledge and skills they acquired from Auto-1. Students will begin to develop the necessary skills and knowledge, to understand, diagnose and repair modern automotive electrical & electronic systems. This course has 5 distinct units of study giving students a more thorough understanding of Brakes & Automatic Brake Systems, Electrical and Electronic Systems, Engine Performance, Steering & Suspension, and Heating & Air Conditioning Systems.

**Graduation Requirements Met: Science, S.T.E.M. Elective \*Not NCAA Approved**

**INTRODUCTION TO AG MECHANICS**

**7942**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 Year

Prerequisite: None

This introductory level course will explore basic small internal combustion engines, tractor and chainsaw operations and safety. Safety, use of shop tools, processes, and procedures around agricultural machinery and equipment will be emphasized.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**ADVANCED AG MECHANICS AND ENGINEERING**

**7972**

**0.5 CREDIT**

GR 10-12

Academic

Meets 1/2 Year

Prerequisite: Introduction to Ag Mechanics and Automotive I

This capstone course is designed to culminate students' experiences in their career pathway to research and develop products or services that address real-world issues locally or globally.

Students will work with our partner organizations to plan, outline, and design projects for a wide range of applications.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**

**DESIGN-BUILD (WOOD, ELECTRICAL, PLUMBING)**

**7982**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 Year

Prerequisite: Automotive I, Automotive II and Introduction to Ag Mechanics

This project-based introductory course is designed for students interested in learning more about the construction trades, like carpentry, electrical, HVAC, welding, and plumbing. Students will learn to safely use hand tools, power tools, architectural drafting tools, and other machinery to design and build projects ranging from dog houses to solar cars. Students will develop a portfolio of completed projects that reflect their mastery of the content learned.

**Graduation Requirements Met: Science, S.T.E.M. Elective**

**\*Not NCAA Approved**



## Frequently Asked Questions about Agriculture

### **Who may enroll?**

Any student in the Greater Hartford community interested in developing skills in the agricultural occupational areas of horticulture, natural resources, agricultural mechanics, animal science and agricultural business management may apply. Students who have successfully completed an application and interview process will be considered for enrollment.

### **What kinds of programs does the Center offer?**

The Center offers academic study in AgriScience specializing in Natural Resources, Agricultural Mechanics, Aquaculture, Animal Science and Botanical Science.

### **Will this program prepare me for college?**

Career guidance is a major focus of the program. All courses are designed to prepare students for two and four-year colleges.

### **If I don't elect to go to college, will I be prepared for employment?**

Students gain practical knowledge and hands-on experience in many agricultural related fields such as floral design, water quality monitoring and landscaping.

### **If I attend classes at the Harris Center, will I have to transfer schools?**

No. You would study for two classes per day at the Center, but attend your home school for full-time study. You would graduate from your home school and would be considered alumni of that school.

### **How would I get to the Center?**

The sending school arranges student transportation.

### **Can I still participate in sports, clubs, and other after-school activities at my home school?**

Yes. Students will be returned to their home school at the end of the day.

### **What are the costs of attending the program?**

There is no cost to any student who wishes to enroll in the program. The town that you live in is responsible for the cost of transportation and tuition.

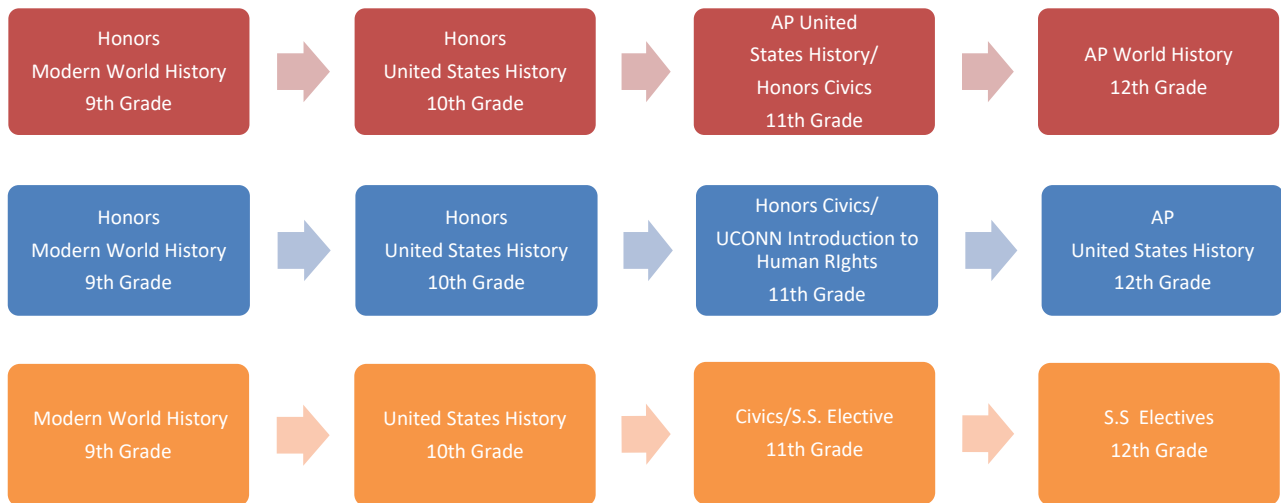


# SOCIAL STUDIES

## Social Studies Courses by Grade

Course Title	Levels	Available to Grades:
<b>Modern World History</b>	Academic, Honors	9
<b>AP World History</b>	Advanced Placement	11-12
<b>US History</b>	Academic, Honors	10-12
<b>AP US History</b>	Advanced Placement	11-12
<b>Civics</b>	Academic, Honors (1/2 year)	11
<b>Psychology</b>	Academic (1/2 year)	11-12
<b>Caribbean Studies</b>	Academic (1/2 year)	11-12
<b>Sociology</b>	Academic (1/2 year)	12
<b>African American Experience</b>	Academic (1/2 year)	11-12
<b>UCONN Introduction to Human Rights</b>	UCONN ECE	11-12
<b>Topics in Latino American History</b>	Academic (1/2 year)	11-12

## Social Studies Recommended Sequences:





**MODERN WORLD HISTORY**

**8102**

**1.0 CREDIT**

GR 9

Academic

Meets all year

Prerequisite: None

This course examines the major social, political, and cultural developments in modern history between the late 1700s and today. Students will immerse themselves in major historical themes such as conflict and cooperation, democratic movements and economic interdependence through the CLOSE Reading Process. Interdisciplinary activities will draw on critical, analytical, and rhetorical skills from an array of coordinated sources in order to emphasize the impact these historical events have had on specific societies and the world. There is a targeted focus on written communication, with an emphasis organization and the use of text evidence. Units include: the Industrial Revolution, colonization and imperialism, the rise of totalitarianism, both world wars, decolonization, the global economy and contemporary world conflicts and trends.

**Graduation Requirements Met: Social Studies**

**NCAA Approved**

**MODERN WORLD HISTORY**

**8101**

**1.0 CREDIT**

GR 9

Honors

Meets all year

Prerequisite: Refer to page 13

The honors level course examines the major social, political, and cultural developments in modern history between the late 1700s and today. Students will immerse themselves in major historical themes such as conflict and cooperation, democratic movements and economic interdependence through the CLOSE Reading Process. Interdisciplinary activities will draw on critical, analytical, and rhetorical skills from an array of coordinated sources in order to emphasize the impact these historical events have had on specific societies and the world. There is a targeted focus on written communication, with an emphasis organization and the use of text evidence. Units include: the Industrial Revolution, colonization and imperialism, the rise of totalitarianism, both world wars, de-colonization, the global economy and contemporary world conflicts and trends. At the honors level, students will be expected to be extremely organized and work with greater independence and speed. This course is designed around rigorous reading and writing regimens. High levels of reading, writing, and reasoning abilities are expected

**Graduation Requirements Met: Social Studies**

**NCAA Approved**

**U.S. HISTORY**

**8202**

**1.0 CREDIT**

GR 10

Academic

Meets all year

Prerequisite: Modern World History

This course examines the major social, political and cultural developments in American History since the Civil War. The pluralistic nature of American society will be stressed in each unit of study. Students will demonstrate their understanding of major themes include growth of democracy, westward and economic expansion, imperialism, social movements, and global conflict and interdependence by analyzing primary and secondary sources. Students will contemplate the question of what being an American means, examining Americans' common heritage as well as our still-evolving culture. The course will emphasize social studies skills such as reasoning with specific text evidence and identifying main ideas and determining causes and effects through research projects and written assessments.

**Graduation Requirements Met: Social Studies**

**NCAA Approved**



**U.S. HISTORY**

**8201**

**1.0 CREDIT**

GR 10

Honors

Meets all year

Prerequisite: Refer to page 17

This honors level course examines in depth the major social, political and cultural developments in American History since the European exploration. Students evaluate various perspectives and explanations in additional primary sources, autobiographies, biographies and historical fiction in addition to the text. Honor students taking this course will be expected to work independently on long range assignments, analyzing central ideas and relationships between diverse ideas and events. Students will be required to present their findings in oral and written presentations incorporating textual evidence to support their claims. Students will complete a significant amount of reading and writing assignments, and should be highly motivated for the honors level.

***Graduation Requirements Met: Social Studies***

***NCAA Approved***

**CIVICS**

**8112**

**0.5 CREDIT**

GR 11

Academic

Meets 1/2 year

Prerequisite: Completion of U.S. History required

This semester course offers students exposure to the government of the United States and their role as a citizen of this country. Students will study the U.S. Constitution, how the U.S. system of government works and how the rule of law and the value of liberty and equality have an impact on individual, local, state, and national decisions. Also, students will demonstrate knowledge of the rights and responsibilities of citizens who participated in shaping public policy and contributing to the maintenance of our democratic way of life. This course includes the examination of selected current events. **Twenty hours of community service are required for successful completion of this course.**

As part of the State of Connecticut's updated requirements for graduation, beginning with the class of 2023 students must complete a service learning project that supports their transition from Bloomfield High School to college and post-secondary opportunities. The project is embedded within Civics classes and requires students to master the skills needed to be life-long learners. Project requirements include a proposal, research paper, reflective essay, portfolio of artifacts, and a PowerPoint presentation to a panel of 3-5 people.

***Graduation Requirements Met: Social Studies***

***NCAA Approved***





**CIVICS**

**8111**

**0.5 CREDIT**

GR 11

Honors

Meets 1/2 year

Prerequisite: Completion of U.S. History required

This honors level course exposes students to the government of the United States, comparative governments and their role as a citizen in this country. Students taking the course at the honors level will be expected to read additional primary sources, research current issues, take a stand on issues, develop solutions for governmental problems and complete other long term assignments. Students must be good readers, writers and highly motivated for the honors level. **Twenty hours of community service is required for the successful completion of this course.**

As part of the State of Connecticut's updated requirements for graduation, beginning with the class of 2023 students must complete a service learning project that supports their transition from Bloomfield High School to college and post-secondary opportunities. The project is embedded within Civics classes and requires students to master the skills needed to be life-long learners. Project requirements include a proposal, research paper, reflective essay, portfolio of artifacts, and a PowerPoint presentation to a panel of 3-5 people.

***Graduation Requirements Met: Social Studies***

***NCAA Approved***

**AP MODERN WORLD HISTORY**

**8401**

**1.0 CREDIT**

GR 11-12

Advanced Placement

Meets all year

Prerequisites: Completion of Modern World History, PSAT/SAT combined score of 1060 or greater, teacher recommendation, and a strong interest in history.

AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. All students are expected to take the AP exam in May. This course is offered in alternating years.

***Graduation Requirements Met: Social Studies, Humanities Elective***

***NCAA Approved***



**AP U.S. HISTORY**

GR 11 or 12

**8711**

Advanced Placement

**1.0 CREDIT**

Meets all year

Prerequisite: Completion of U.S. History, PSAT/SAT combined score of 1060 or greater, teacher recommendation, a high level of self-motivation, and a strong interest in history.

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places. Students who select this course must take the AP examination for AP credit to appear on their transcript. This course is offered in alternating years.

**Graduation Requirements Met: Social Studies, Humanities Elective**

**NCAA Approved**

**PSYCHOLOGY**

GR 11-12

**8722**

Academic

**0.5 CREDIT**

Meets 1/2 year

Prerequisite: None

Recommended: Biology or Anatomy

Students in this introductory psychology course study individual behavior and cognition.

Through the examination of various psychological theories and perspectives, students develop a greater understanding of why people think and act as they do. The study of psychology provides insights into one's attitudes, feelings and actions. Selected topics of study include brain physiology and function, the principles of learning, the process of memory and cognition, the interaction of sensation and perception, personality development, social psychology, and the investigation of various mental disorders. Students will design a study of a psychological concept using scientific methods.

**Graduation Requirements Met: Social Studies, Humanities Elective, Elective**

**NCAA Approved**

**SOCIOLOGY**

GR 11-12

**8752**

Academic

**0.5 CREDIT**

Meets 1/2 year

Prerequisite: None

Sociology is the systematic study of human society and group behavior. Students in this course will take on a sociological perspective by exploring the power of society to shape our thoughts, feelings, actions and choices. The origins of sociology, key thinkers, theories and methods will be studied. Major concepts include socialization, components of culture, diversity, deviance, social inequality, power, gender, race and ethnicity, the human lifespan, social change, and revolutions and revolutionaries. Students will design a study of a social issue or problem of concern to them using scientific methods.

**Graduation Requirements Met: Social Studies, Humanities Elective, Elective**

**NCAA Approved**



**CARIBBEAN STUDIES**

**8742**

**0.5 CREDIT**

GR 10-12

Academic

Meets 1/2 year

Prerequisite: None

This honors level course examines the foundations of African American heritage from Africa, the Caribbean to North America. Students will read additional primary sources, autobiographies, biographies to understand the social, cultural, political and economic factors that have become a part of the African American Experience. Honors students will be required to present their findings in oral and written presentations incorporating textual evidence to support their claims. Students will complete a significant amount of reading and writing assignments, and should be highly motivated for the honors level.

***Graduation Requirements Met: Social Studies, Humanities Elective, Elective***

***NCAA Approved***

**AFRICAN-AMERICAN EXPERIENCE**

**8712**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: None

This course will examine the African-American heritage from its foundation in Africa to the Caribbean and North America. A major focus is the African American experience in the United States from 1619 to the present. Social, cultural, political, and economic factors which have influenced the African-American experience in America will be studied. The role of African-Americans in each major period of American history will be analyzed. Students will become familiar with the art, music, literature, and dance which form an important part of the African-American culture. Emphasis will also be placed on key contemporary issues which have an impact upon African-Americans today. Students will determine the central ideas, provide accurate summary, and analyze multiple primary and secondary sources. Students will be required to participate in reading outside the textbook, independent projects and to participate in oral presentations and debates.

***Graduation Requirements Met: Social Studies, Humanities Elective, Elective***

***NCAA Approved***

**UCONN INTRODUCTION TO HUMAN RIGHTS**

**8501**

**0.5 CREDIT**

GR 11-12

UCONN ECE

Meets 1st Semester

Prerequisite: Successful completion of Honors Civics, AP U.S. History, AP World History or teacher recommendation. Instructor consent is required.

This course provides an introduction to the interdisciplinary study of human rights through the lens of law, justice, ethics, and morality. We will study and consider the history of human rights and the creation of international human rights law. We then reflect on the evolution of how human rights is considered today in different cultures and focus in on specific historical and current human rights issues. By the end of the semester, students will have developed an understanding of human rights as international law and as a movement formed around a set of values shared by individuals and communities across the globe. They will also be familiar and have grappled with critiques and responses to the human rights framework and have learned policy and advocacy strategies to secure human rights for all people. Successful completion of this course will earn the student three (3) UConn college credits.

***Graduation Requirements Met: Social Studies, Humanities Elective, Elective***

***NCAA Approved***



## TOPICS IN LATINO AMERICAN HISTORY

GR 11-12

**5032**

Academic

**0.5 CREDIT**

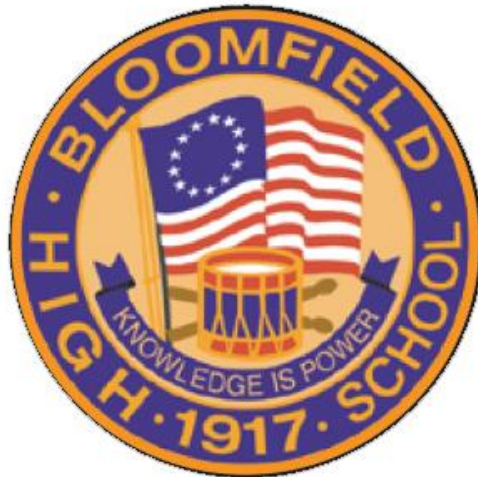
Meets 1/2 year

Prerequisite: None

An elective course that examines Latin American culture, history, society, and geography. Students will study in-depth the cultural and ethnic distinctions that exist between Latin-American countries, both historical and contemporary. This course will emphasize critical thinking, writing, and analysis. Current events and issues in the Latin American world will be incorporated.

***Graduation Requirements Met: Social Studies, Humanities Elective, Elective***

***NCAA Approved***





# STUDENT SUPPORT SERVICES

## Student Support Services Courses

Course Title	Level	Available to Grades:
<b>Extended Learning Center</b>	Modified	9-12
<b>Resource English</b>	Modified	9-12
<b>Life Skills</b>	Modified	9-12
<b>Resource Fundamentals of Math</b> <b>Consumer Math</b> <b>Geometry</b> <b>Algebra</b>	Modified	9-12
<b>Student Exploration and Career Development</b>	Modified	11-12

### **EXTENDED LEARNING CENTER**

**9113, 9213, 9313, 9413**

**1.0 CREDIT**

GR 9-12

Modified

Meets all year

Prerequisite: Per PPT

This course is designed to provide instructional and emotional support to special education students in their courses. This support includes:

- Organization.
- Acquisition of knowledge.
- Review, analysis, and application of knowledge.
- Synthesis, evaluation, and expression of knowledge.
- Transition planning.

Emphasis will be placed on coordinating the learning of skills with mainstream class materials rather than increasing work demands with supplementary materials. Selections of the classes will be through a Planning and Placement Team (PPT) decision.

***Graduation Requirements Met: Elective***

***\*Not NCAA Approved***

### **LIFE SKILLS**

**9583**

**1.0 CREDIT**

GR 9-12

Standard

Meets all year

Prerequisite: Per PPT

This class is designed to guide each student through day to day life situations. Topics include handling relationships, how to live on their own, problem solving, how not to be a victim and how to lead a successful life. Discussions, role-playing and activities are used to emphasize social, emotional and physical well-being. Use of the arts enhances the lessons and life skills.

***Graduation Requirements Met: Elective***

***\*Not NCAA Approved***



**RESOURCE ENGLISH**

**9103, 9303**

**1.0 CREDIT**

GR 9-10 (9103), 11-12 (9303)

Modified

Meets all year

Prerequisite: Per PPT

These courses are designed to provide instructional and emotional support to special education students who are not adequately accessing the curriculum in the general education setting. Students study literature and composition with an emphasis on the ability to analyze and interpret a variety of short stories, novels, dramas, and poetry. The curriculum and content of the course is specifically designed to meet the individual reading and writing objectives outlined in each student's IEP.

**Graduation Requirements Met: English**

**\*Not NCAA Approved**

**STUDENT EXPLORATION AND CAREER DEVELOPMENT**

**9623**

**1.0 CREDIT**

GR 11-12

Standard

Meets all year

Prerequisite: Per PPT

SEEC is specifically designed to help transition students into real world opportunities that are related to their interests and expectations for post-secondary education and training. The focus of this course will guide students through the college/post-secondary application process while also focusing on the essential skills needed for employability. SEEC will teach strategies for finding, getting, and keeping a job. Students will develop independent living skills, as well as demonstrate an understanding of the skills, attitudes, and habits that are essential to be successful in the 21 Century for post-secondary education and employment. Objectives of this course are aligned with each student's IEP to ensure fulfillment of transition goals and objectives.

Students may take this course twice depending on individual progress and rate of mastery towards IEP goals. Where Internship and Job Shadowing opportunities are present students may also earn up to an additional .5 credits.

**Graduation Requirements Met: Elective**

**\*Not NCAA Approved**

**RESOURCE FUNDAMENTALS OF MATH**

**9023**

**CONSUMER MATH**

**9163**

**1.0 CREDIT**

**GEOMETRY R**

**9673**

Meets all year

**ALGEBRA R**

**9973**

GR 9-12

Modified

Prerequisite: Per PPT

Resource math courses are designed to provide instructional and emotional support to special education students who are not adequately accessing the curriculum in the general education setting. The curriculum and content of the courses are specifically designed to mirror the appropriate math curriculum in conjunction with meeting the math goals and objectives outlined in each student's IEP. Refer to the flow chart of Possible Math Sequences found in the Mathematics section for the suggested progression of studies.

**Graduation Requirements Met: Mathematics**

**\*Not NCAA Approved**



# PHYSICAL EDUCATION/HEALTH

Graduation requirements beginning with the Class of 2023 for Physical Education and Health have changed. Students now **MUST** complete the following:

- .25 Credit in Health I
- .50 Credit in Health II
- .25 Credit in CPR/First Aid
- .25 Credit in Connecticut Physical Fitness Assessment

The remaining .75 credits in Physical Education can consists of any PE courses of a student's choosing.

<b>HEALTH I</b>	<b>1512</b>	<b>0.25 CREDIT</b>
GR 9-10	Academic	Meets ¼ year

**Prerequisite:** HEALTH I must be taken prior to Health II and is recommended during the student's 9th or 10th grade year.

Health Education addresses topics pertinent to the students' ability to make informed decisions regarding behaviors that will affect their emotional, social and mental well-being. Themes to be discussed in Health I include; HIV/AIDS, Harassment, Relationships and Substance Abuse. The information disseminated will give students a better knowledge base, which will assist them in making informed decision regarding their personal lifestyles.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

<b>HEALTH II</b>	<b>1642</b>	<b>0.5 CREDIT</b>
GR 10-12	Academic	Meets 1/2 year

**Prerequisite:** Completion of Health I

Health Education addresses topics pertinent to the students' ability to make informed decisions regarding behaviors that will affect their emotional, social and mental well-being. Themes to be discussed are sexually transmitted diseases, peer pressure, and substance abuse. Additional topics include, but are not limited to nutrition, self-esteem, eating disorders, domestic violence, abusive relationships, and birth control. Health II is designed to give students the factual base necessary to make informed decisions. It also addresses the misinformation students currently have.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

**Note:** *At the parent's written request, a student may be excluded from the human sexuality portion of the health unit per Board Policy # 6200. This section includes, but is not limited to: discussions about HIV/AIDS, sexually transmitted diseases, contraceptives, and teen pregnancy.*



<b>CPR/FIRST AID/ PERSONAL FITNESS</b>	<b>1492</b>	<b>0.25 CREDIT</b>
GR 9-12	Academic	Meets ¼ year

**Prerequisite:** None

**This course meets the mandate for graduation.** Through the American Red Cross supported curriculum of Community CPR and First Aid, students will learn safety training for emergencies. Areas of concentration will include safety during daily activities, water sports, and recreational activities. Exploration of proper training for sport and recreational activities to prevent injuries and emergencies will be included. Students will have the opportunity to earn an American Red Cross certificate of completion. Personal Fitness is designed to give students the opportunity to learn and develop fundamental fitness concepts and conditioning techniques used for achieving and maintaining optimal physical fitness. Students will learn overall fitness training and conditioning.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

<b>CPR/FIRST AID/ WEIGHT ROOM</b>	<b>1442</b>	<b>0.25 CREDIT</b>
GR 9-12	Academic	Meets ¼ year

**Prerequisite:** None

**This course meets the mandate for graduation.** Through the American Red Cross supported curriculum of Community CPR and First Aid, students will learn safety training for emergencies. Areas of concentration will include safety during daily activities, water sports, and recreational activities. Exploration of proper training for sport and recreational activities to prevent injuries and emergencies will be included. Students will have the opportunity to earn an American Red Cross certificate of completion. Weight Room will focus on muscular development, strength, flexibility, conditioning, and proper technique. Each student will have the opportunity to master the basic techniques of weight training of large muscle groups with proper balance, spotting, breathing, lifting and safety techniques. Students will learn overall fitness training and conditioning.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

<b>CONNECTICUT PHYSICAL FITNESS ASSESSMENT/ LAWN GAMES</b>	<b>1482</b>	<b>0.25 CREDIT</b>
GR 9-12	Academic	Meets ¼ year

**Prerequisite:** None

**This course meets the mandate for graduation.** This course provides students with the opportunity to improve their physical fitness. The Connecticut Physical Fitness Assessment is Connecticut’s annual assessment of public school students’ physical well-being. In this course, students will prepare for the assessment by working on their aerobic endurance, flexibility, upper body strength and endurance, and abdominal muscle strength and endurance. Students will then take the assessment which includes; push-ups, curl ups, sit and reach, the mile run, and the PACER test. Student results will be report to the State of Connecticut. Lawn Games offers students a fun and competitive alternative to traditional games. Lawn Games such as Corn hole, Kan Jam, Bocce Ball, Ladder Toss, etc. offer students lifelong activity options that promote social responsibility, leisure activity for enjoyment, wellness and the competitiveness to provide fitness benefits at all levels.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**





**CONNECTICUT PHYSICAL FITNESS ASSESSMENT/ FOOTBALL**

GR 9-12

**1472**

**0.25 CREDIT**

**Prerequisite:** None

Academic

Meets ¼ year

**This course meets the mandate for graduation.** This course provides students with the opportunity to improve their physical fitness. The Connecticut Physical Fitness Assessment is Connecticut’s annual assessment of public school students’ physical well-being. In this course, students will prepare for the assessment by working on their aerobic endurance, flexibility, upper body strength and endurance, and abdominal muscle strength and endurance. Students will then take the assessment which includes; push-ups, curl ups, sit and reach, the mile run, and the PACER test. Student results will be report to the State of Connecticut.

Football will introduce students to basic skills, strategies and knowledge associated with football. By applying these principles through active participation, students develop the necessary skills and knowledge to play football.

**Graduation Requirements Met: *Physical Education/Health***

***\*Not NCAA Approved***

**CONNECTICUT PHYSICAL FITNESS ASSESSMENT/ SOCCER**

GR 9-12

**1402**

**0.25 CREDIT**

**Prerequisite:** None

Academic

Meets ¼ year

**This course meets the mandate for graduation.** This course provides students with the opportunity to improve their physical fitness. The Connecticut Physical Fitness Assessment is Connecticut’s annual assessment of public school students’ physical well-being. In this course, students will prepare for the assessment by working on their aerobic endurance, flexibility, upper body strength and endurance, and abdominal muscle strength and endurance. Students will then take the assessment which includes; push-ups, curl ups, sit and reach, the mile run, and the PACER test. Student results will be report to the State of Connecticut.

Soccer will introduce students to basic skills, strategies and knowledge associated with soccer. By applying these principles through active participation, students develop the necessary skills and knowledge to play soccer.

**Graduation Requirements Met: *Physical Education/Health***

***\*Not NCAA Approved***

**VOLLEYBALL/COOPERATIVE GAMES**

**1542**

**0.25 CREDIT**

GR 9-12

Academic

Meets ¼ year

**Prerequisite:** None

The general purpose of the course is to promote life-long physical activity and to develop an understanding of the benefits of being healthy. This course offers students the opportunity to learn skills and perform drills related to Volleyball. Cooperative Games requires the students to work together to find solutions to group/individual challenges. Cooperative games puts an emphasis on team building, communication and trust. Tactical problems relating to cooperative games include communication, cooperation, teamwork, trust, and problem solving. Class emphasis will be on game skills, teamwork, direction following and a general understanding of rules, concepts and play.

**Graduation Requirements Met: *Physical Education/Health***

***\*Not NCAA Approved***



**SOFTBALL/BASEBALL/POWER BALL/WHIFFLE BALL**

GR 9-12 **1452** **0.25 CREDIT**  
**Prerequisite:** None Academic Meets ¼ year

This course offers students the opportunity to learn skills and perform drills relating to the following sports/activities: Softball, Baseball, Power Ball and Whiffle Ball. Class emphasis will be on game skills, strategies, teamwork and a general understanding of rules, concepts and play. Students will gain skills necessary to become lifelong participants in these physical activity.

**Graduation Requirements Met: Physical Education/Health**  
**\*Not NCAA Approved**

**BASKETBALL/WEIGHT ROOM**

GR 9-12 **1502** **0.25 CREDIT**  
Academic Meets ¼ year

**Prerequisite:** None  
Basketball will introduce students to basic skills, strategies and knowledge associated with basketball. By applying these principles through active participation, students develop the necessary skills and knowledge to play basketball. In addition, this course provides students with the opportunity to improve their physical fitness. Weight Room will focus on muscular development, strength, flexibility, conditioning, and proper technique. Each student will have the opportunity to master the basic techniques of weight training of large muscle groups with proper balance, spotting, breathing, lifting and safety techniques.

**Graduation Requirements Met: Physical Education/Health**  
**\*Not NCAA Approved**

**ULTIMATE FRISBEE/TEAM HANDBALL**

GR 9-12 **1432** **0.25 CREDIT**  
**Prerequisite:** None Academic Meets ¼ year

This course offers students the opportunity to learn skills and performs drills relating to the following sports/activities: Ultimate Frisbee and Team Handball. Class emphasis will be on game skills, teamwork and a general understanding of rules, concepts and play. Students will gain skills necessary to become lifelong participants in physical activity.

**Graduation Requirements Met: Physical Education/Health**  
**\*Not NCAA Approved**

**LACROSSE/FLOOR HOCKEY/SCOOTER HOCKEY**

GR 9-12 **1422** **0.25 CREDIT**  
**Prerequisite:** None Academic Meets ¼ year

This course offers students the opportunity to learn skills and performs drills relating to the following sports/activities: Lacrosse, Floor Hockey, and Scooter Hockey. Class emphasis will be on game skills, teamwork and a general understanding of rules, concepts and play. Students will gain skills necessary to become lifelong participants in physical activity.

**Graduation Requirements Met: Physical Education/Health**  
**\*Not NCAA Approved**



**WARHAWK GAMES**

**1412**

**0.25 CREDIT**

GR 9-12

Academic

Meets ¼ year

**Prerequisite:** None

Warhawk Games offers students a fun and competitive alternative to traditional games. Students will participate in non-traditional team activities and games developed by the PE Staff at Bloomfield High School. Activities include: Dodgeball, Mat-Ball, Island-Ball, and Speed-Ball. Class emphasis will be on game skills, teamwork and a general understanding of rules, concepts and play. Students will gain skills necessary to become lifelong participants in physical activity.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

**BADMINTON/PICKLEBALL**

**1462**

**0.25 CREDIT**

GR 9-12

Academic

Meets ¼ year

**Prerequisite:** None

The general purpose of the course is to promote life-long physical activity and to develop an understanding of the benefits of being healthy. This course offers students the opportunity to learn basic skills and strategies for both Badminton and Pickleball. Pickleball combines elements of tennis, badminton and ping pong and is played on a badminton-sized court. Both Badminton and Pickleball can be played as singles or doubles and can be enjoyed by all skill levels.

**Graduation Requirements Met: Physical Education/Health**

**\*Not NCAA Approved**

**UNIFIED PHYSICAL EDUCATION**

**1522**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

**Prerequisite: Must have at least a B average in all previous Physical Education courses and a recommendation from the School Counselor or previous Physical Education Teacher.**

**This credit may be used to meet the Physical Education graduation requirement or as an elective.**

This class pairs students with students who require modifications to the regular PE curriculum. Students will participate in the regular physical education curriculum while modeling appropriate behaviors that promote a healthy lifestyle. Students are expected to be responsible, mature, and role-models in the classroom.

**Graduation Requirements Met: Elective; can be used as a Physical Education credit with administrative approval**

**\*Not NCAA Approved**





# WORLD LANGUAGES

Course Title	Levels	Available to Grades:
<b>French I</b>	Academic,	9-12
<b>French II</b>	Academic, Honors	9-12
<b>French III</b>	Academic, Honors	10-12
<b>French IV</b>	Academic, Honors	11-12
<b>Spanish I</b>	Academic	9-12
<b>Spanish II</b>	Academic, Honors	9-12
<b>Spanish III</b>	Academic, Honors	10-12
<b>Spanish IV</b>	Academic, Honors	11-12
<b>UCONN Spanish</b>	UCONN	11-12

**FRENCH I**

GR 9-12

Prerequisite: None

This course is designed as an introduction to the French language. The primary emphasis is to establish functional proficiency. The student is exposed to the French culture through the use of audio-visuals and reading selections from the textbook. The listening, reading, speaking, and writing skills are developed through the use of class participation, collaborative activities and listening activities. Students will have access to textbook websites in order to further their skills.

**Graduation Requirements Met: World Language, Elective**

**NCAA Approved**

**5102**

Academic

**1.0 CREDIT**

Meets all year

**FRENCH II**

GR 9-12

Prerequisite: Successful completion of French I

The four skills of language acquisition will be emphasized throughout the school year. Exposure to French speaking countries will continue through the use of audio-visual materials, related websites, and computer based activities.

**Graduation Requirements Met: World Language, Elective**

**NCAA Approved**

**5202**

Academic

**1.0 CREDIT**

Meets all year



**FRENCH II**

**5201**

**1.0 CREDIT**

GR 10-12

Honors

Meets all year

Prerequisite: Successful completion of French I with a B or better

Continued development of functional oral facility along with an increased emphasis on basic reading and writing competencies will be stressed. Students will become familiar with a number of French speaking countries through varied cultural readings and authentic materials. Related websites and computer based activities will be completed throughout the year.

*Graduation Requirements Met: World Language, Elective*

*NCAA Approved*

**FRENCH III**

**5302**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: Successful completion of French II

This class continues to develop the skill areas of listening, reading, speaking and writing. Additional grammatical structures and functions will be studied. French history and culture is explored and French is the dominant language in the classroom. Computer based activities will be on-going to further develop their skills. Culture will be presented via textbook readings and audio-visual materials.

*Graduation Requirements Met: World Language, Elective*

*NCAA Approved*

**FRENCH III**

**5301**

**1.0 CREDIT**

GR 10-12

Honors

Meets all year

Prerequisite: Successful completion of honors French II with a B or better

This course continues to develop the student's oral, speaking, reading and writing skills. A comprehensive review of grammatical structure is given as the student is introduced to more complex grammar. Culture, music and art will be introduced via audio-visual materials and web-based activities. French is the language of the classroom.

*Graduation Requirements Met: World Language, Elective*

*NCAA Approved*

**FRENCH IV**

**5402**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Successful completion of French III

This course begins with a thorough review of French grammar. Students will continue to study appropriate functions, and more in-depth structure. Students will read abridged works of history and literature. Cultural activities will be explored so that students can get a sense of similarities and differences. Website based activities will continue throughout the year. French is the language of the classroom

*Graduation Requirements Met: World Language, Elective*

*NCAA Approved*



**FRENCH IV**

GR 11-12

**5401**

Honors

**1.0 CREDIT**

Meets all year

Prerequisite: Successful completion of Honors French III with a B or better.

This course places emphasis on reading and listening comprehension, oral fluency and writing. Intense and extensive grammatical structures will be incorporated so that students will improve various skills while studying historical and literary pieces in French. Students will write compositions using the skills learned, and will have the opportunity to access internet websites researching various customs in the French-speaking world. French is the language of the classroom.

*Graduation Requirements Met: World Language, Elective  
NCAA Approved*

**SPANISH I**

GR 9-12

**5112**

Academic

**1.0 CREDIT**

Meets all year

Prerequisite: None

This course is designed as an introduction to the Spanish language. The primary emphasis is to establish functional proficiency. The student is also exposed to the Spanish culture through the use of audio-visuals and reading selections from the textbook. The listening, reading, speaking, and writing skills are developed through the use of class participation, collaborative activities and listening activities. Students will have access to textbook websites in order to further their skills.

*Graduation Requirements Met: World Language, Elective  
NCAA Approved*

**SPANISH II**

GR 9-12

**5212**

Academic

**1.0 CREDIT**

Meets all year

Prerequisite: Successful completion of Spanish I.

The four skills of language acquisition will be emphasized throughout the year. Exposure to the Spanish speaking countries will continue through the use of audio-visual materials, related websites, and computer based activities.

*Graduation Requirements Met: World Language, Elective  
NCAA Approved*

**SPANISH II**

GR 10-12

**5211**

Honors

**1.0 CREDIT**

Meets all year

Prerequisite: Successful completion of Spanish I with a B+ or better.

Continued development of functional oral facility along with an increased emphasis on basic reading and writing competencies will be stressed. Students will become familiar with a number of Spanish speaking countries through varied cultural readings and authentic materials. Related websites and computer based activities will be incorporated into the course.

*Graduation Requirements Met: World Language, Elective  
NCAA Approved*



**SPANISH III**

**5312**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: Successful completion of Spanish II.

This class continues to develop the skill areas of listening, reading, speaking and writing. More grammatical structure and function will be studied. Spanish is the dominant language in the classroom. Computer based activities will be used to further develop their skills. Culture will be presented via textbook readings and audio-visual materials. Related websites and computer based activities will be completed throughout the year.

***Graduation Requirements Met: World Language, Elective***

***NCAA Approved***

**SPANISH III**

**5311**

**1.0 CREDIT**

GR 10-12

Honors

Meets all year

Prerequisite: Successful completion of Honors Spanish II with a B+ or better.

This course continues to develop the student's oral, speaking, reading and writing skills.

Comprehensive reviews of grammatical structures are given as the students are introduced to more complex grammar. Culture, music and art will be introduced via audio-visual materials and web-based activities. Spanish is the dominant language in the classroom.

***Graduation Requirements Met: World Language, Elective***

***NCAA Approved***

**SPANISH IV**

**5412**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: Successful completion of Spanish III with a C or better.

This course begins with a thorough review of Spanish grammar. Emphasis is placed on total immersion in the target language. Students will continue to study appropriate functions, and more in-depth structures. Students will also read abridged works of literature and write paragraphs in Spanish. Website based activities will continue throughout the year. Spanish is the dominant language in the classroom.

***Graduation Requirements Met: World Language, Elective***

***NCAA Approved***

**SPANISH IV**

**5411**

**1.0 CREDIT**

GR 11-12

Honors

Meets all year

Prerequisite: Successful completion of Honors Spanish III with a B or better.

This course places emphasis on comprehension, oral fluency and writing. Intensive and extensive grammatical structure will be incorporated so that students will improve their writing skills in Spanish. Students will also write compositions using the skills learned, and will have the opportunity to access internet websites. Spanish is the language of the classroom.

***Graduation Requirements Met: World Language, Elective***

***NCAA Approved***



**UCONN SPANISH**

GR 12

**5511**

UCONN ECE

**1.0 CREDIT**

Meets all year

Prerequisite: Successful completion of three or more years of high school Spanish and instructor consent is required.

This course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary. This course is a study of the usage of techniques utilized in the writing process. A practical review of authentic readings and texts are used as models for writing. The course also concentrates on the study of grammatical structures and advanced vocabulary through cultural readings, group discussions and oral presentations on a variety of topics concerning the Spanish-Speaking world. Spanish is the dominant language in the classroom. Upon completion of this course a student will earn three UCONN college credits.

***Graduation Requirements Met: World Language, Elective***

***NCAA Approved***







# THE ARTS:

## PERFORMING ARTS

Course Title	Levels	Available to Grades:
<b>UCONN Fundamentals of Music/ Ear Training I</b>	UCONN	11-12
<b>UCONN Fundamentals of Music/ Ear Training II</b>	UCONN	11-12
<b>Concert Band I</b>	Academic	9-12
<b>Concert Band II</b>	Academic	10-12
<b>Concert Band III</b>	Academic	11-12
<b>Concert Choir I</b>	Academic	9-12
<b>Mixed Chorale</b>	Academic	10-12
<b>Select Choir</b>	Academic	10-12
<b>Voices Of Inspiration Choir</b>	Academic	10-12

### **CONCERT BAND I**

GR 9-12

Prerequisite: None

**4542**

Academic

**1.0 CREDIT**

Meets all year

This instrumental performing organization emphasizes the quest for excellence and enjoyment through a large group ensemble. As part of the band, each student plays an integral part of the total group. The band meets daily and performs a varied repertoire of music from around the world and from many time periods.

***Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective***

***\*Not NCAA Approved***

***Note: Attendance at rehearsals and concerts and the purchase of a uniform is a requirement for each performing group.***



**CONCERT BAND II** **4652** **1.0 CREDIT**  
GR 9-12 Academic Meets all year  
Prerequisite: None  
This instrumental performing organization emphasizes the quest for excellence and enjoyment through a large group ensemble. As part of the band, each student plays an integral part of the total group. The band meets daily and performs a varied repertoire of music from around the world and from many time periods.  
*Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective*  
*\*Not NCAA Approved*

**CONCERT BAND III** **4852** **1.0 CREDIT**  
GR 9-12 Academic Meets all year  
Prerequisite: None  
This instrumental performing organization emphasizes the quest for excellence and enjoyment through a large group ensemble. As part of the band, each student plays an integral part of the total group. The band meets daily and performs a varied repertoire of music from around the world and from many time periods.  
*Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective*  
*\*Not NCAA Approved*

**CONCERT CHOIR I** **4552** **1.0 CREDIT**  
GR 9-12 Academic Meets all year  
Prerequisite: None  
Concert Choir consists of freshmen and first year choral students. Various styles of choral music will be explored through study and performance. The following musical skills will be taught; proper breathing, vocal production, blend and balance, good intonation, ear training and sight-reading. Participation in various performances is a requirement.  
*Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective*  
*\*Not NCAA Approved*

**MIXED CHORALE** **4232** **1.0 CREDIT**  
GR 10-12 Academic Meets all year  
Prerequisite: Concert I  
Mixed Chorale consists of students from grades 10 through 12. Students will continue to develop vocal technique, musicianship, and critical thinking skills. Students will also continue to study music theory concepts and history. The following musical skills will be taught; proper breathing, vocal production, blend and balance, good intonation, ear training and sight-reading, and analysis of music. Participation in various performances is a requirement.  
*Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective*  
*\*Not NCAA Approved*



**VOICES OF INSPIRATION CHOIR**

**4445**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: Concert Choir/Teacher Approval

Voices of Inspiration consists of students from grades 10 through 12. This performing ensemble will focus on songs that are influenced by gospel style of music, meaning “good news”. Students will study the history of specific musical selections. The following musical skills will be taught; proper breathing, vocal production, blend and balance, good intonation, ear training and sight-reading, and analysis of music. The musicians in this choir will be the accompanying band. Specific attire for performances will be determined prior to performances. Participation in various performances is a requirement.

***Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective***

***\*Not NCAA Approved***

**UCONN MUSIC FUNDAMENTALS/EAR TRAINING I**

GR 11-12

**4011**

**1.0 CREDIT**

Prerequisite: Instructor Approval

UCONN ECE

Meets all year

This class teaches basic skills in note reading, rhythm, meter, pitch symbols, scales, key-signatures, intervals, triads, sight-singing, and dictation. Successful completion of this course can earn a student three college credits.

***Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective***

***\*Not NCAA Approved***

**UCONN MUSIC FUNDAMENTALS/EAR TRAINING II**

GR 11-12

**4111**

**1.0 CREDIT**

Prerequisite: Instructor Approval

UCONN ECE

Meets all year

This class teaches basic skills in note reading, rhythm, meter, pitch symbols, scales, key-signatures, intervals, triads, sight-singing, and dictation. Successful completion of this course can earn a student three college credits.

***Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective***

***\*Not NCAA Approved***

**SOUND DESIGN AND PRODUCTION 4772**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: None

Today’s computer hardware and music software has made it possible to expand the music curriculum to include; composition, orchestration, arranging, microphone and recording techniques, and film scoring. These areas will be the focus of the Sound Studio. This course is designed to, on an intermediate and advanced level, allow students to design, create and orchestrate their own compositions using the latest computer software. This course has limited enrollment.

***Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective***

***\*Not NCAA Approved***



# VISUAL ARTS

**ART I** **4502** **0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year  
Prerequisite: None  
This course examines history, theory, and practice in basic art. Specifically, students will study elements and principles of art, art history, art techniques and experiences. Students will engage in many “hands on” activities focusing on both two and three-dimensional work.  
**Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective**  
**\*Not NCAA Approved**

**ART II** **4902** **0.5 CREDIT**  
GR 10-12 Academic Meets 1/2 year  
Prerequisite: Successful completion of Art I and teacher recommendation.  
This course builds upon foundations studied in ART I. Using the skills developed in ART I, students will expand their use of creativity to a more advanced stage. Advanced two and three dimensional work will be created and will be collected in an art portfolio format, thus encouraging further study in Art.  
**Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective**  
**\*Not NCAA Approved**

**THREE DIMENSIONAL ART** **4912** **1.0 CREDIT**  
GR 9-12 Academic Meets all year  
Prerequisite: None  
This is a year-long exploration into various three-dimensional art forms with an emphasis in ceramics (clay) and sculpture. Techniques, practices and processes will be stressed and examined.  
**Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective**  
**\*Not NCAA Approved**

**SPECIAL TOPICS IN ART** **4911** **0.5/1.0 CREDIT**  
GR 11-12 Honors Meets ½ and full year  
Prerequisite: Successful completion of Art I and teacher recommendation.  
This course builds upon foundations studied in ART I. Using the skills developed in ART I, students will expand their use of creativity to a more advanced stage. Advanced two and three dimensional work will be created and will be collected in an art portfolio format, thus encouraging further study in Art.  
**Graduation Requirements Met: Arts or Vocational Ed, Humanities Elective, Elective**  
**\*Not NCAA Approved**



# CAREER & TECHNICAL EDUCATION

The Career and Technical Education Curriculum is part of the total academic structure at Bloomfield High School and provides a significant contribution to the education and preparation of all students to succeed in a business-oriented society. Many of the goals and objectives in this curriculum guide are taken from the Connecticut State Performance Standards and Competencies for Career and Technical Education. In addition, the focus of the curriculum is to raise expectations for learning to promote growth in student achievement and effectively prepare students for statewide assessments in career and technical education.

The curriculum for all areas of career and technical education provides a comprehensive, competency-based instructional program and encompasses a broad spectrum of subject matter, including Mathematics, Science, and Language Arts. The intention is to teach students to think for themselves and make decisions based upon knowledge and research, enabling them to become self-sufficient, life-long learners and productive members of society in a diverse and changing world.

## BUSINESS

### FINANCIAL LITERACY

2272

0.5 CREDIT

GR 9-12

Academic

Meets 1/2 year

Prerequisite: None

This course provides a foundational understanding for making informed personal financial decisions. Relevant topics covered will include income, money management, spending and credit, as well as saving and investing. Students will gain knowledge in finance, debt, and credit management and evaluate and understand insurance and taxes.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

### PERSONAL FINANCE I

2682

0.5 CREDIT

GR 9-12

Academic

Meets 1/2 year

Prerequisite: Financial Literacy

Successful financial planning and investing is critical to reaching your financial goals. A “must have” class for every student, this finance course provides the fundamentals of investment strategies, preparation and interpretation of personal financial statements and budgets, time value of money, savings, consumer credit, risk management, and even retirement planning. The emphasis for this class is learning how to make your money work for you! Students may earn three college credits through Capital Community College’s College Career Pathways (CCP) program.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**



**MARKETING** **2632** **0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year  
Prerequisite: None  
Students will learn the fundamentals of business and marketing. This class focuses on current topics in business and marketing including the Marketing Mix: Product, Price, Place & Promotion. The class also includes topics on channel management, sales, promotion and advertising, and career exploration. Students will participate in a marketing simulation and learn how to virtually market and operate a retail store.  
*Graduation Requirements Met: Arts or Vocational Ed, Elective*  
*\*Not NCAA Approved*

**INTRODUCTION TO BUSINESS** **2192** **0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year  
Prerequisite: None  
Students will learn and experience a variety of topics in the field of business. The class' focuses on topics related to economics, finance, entrepreneurship, marketing, management, and ethics. Students will participate in a management simulation and learn how to virtually manage a small business.  
*Graduation Requirements Met: Arts or Vocational Ed, Elective*  
*\*Not NCAA Approved*

**PERSONAL FINANCE II** **2412** **0.5 CREDIT**  
GR 10-12 Academic Meets 1/2 year  
Prerequisite: Personal Finance I  
Further your financial skills with this in-depth course on financial well-being. Skills for this course include banking, credit and investing strategies that create financial wealth. Students will also evaluate how to protect that wealth through insurance. Other topics include understanding the costs associated with buying a car and a home. Students will also research careers that are available in the finance career cluster.  
*Graduation Requirements Met: Arts or Vocational Ed, Elective*  
*\*Not NCAA Approved*

**COLLEGE AND CAREER READINESS** **2432** **0.5 CREDIT**  
GR 10-12 Academic Meets 1/2 year  
Prerequisite: None  
Students will be given the tools to transition them in their chosen direction after high school. The skills taught in this course are imperative to ensuring that each and every student who graduates has a clear understanding of how to succeed and thrive in college, at work or both. Students will engage in research projects, resume and cover letter development, presentation and speaking activities, business writing and telephone skills, as well as interactions with guest speakers.  
*Graduation Requirements Met: Arts or Vocational Ed, Elective*  
*\*Not NCAA Approved*



**BUSINESS COMPUTER APPLICATIONS**      **2612**      **0.5 CREDIT**  
GR 9-12      Academic      Meets 1/2 year

Prerequisite: None

Students will cover computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The course will also explore business applications of software, including spreadsheets, databases, presentation graphics, word processing and business-oriented utilization of the Internet. MS Word, Excel, PowerPoint; Google Docs, Sheets and Slides will be thoroughly explored.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

**ENTREPRENEURSHIP**      **2182**      **0.5 CREDIT**  
GR 10-12      Academic      Meets 1/2 year

Prerequisite: Completion of Introduction to Business or Business Computer Applications

Students will learn the skills and approaches to successfully evaluate and create new business opportunities. This course will explore entrepreneurial ideas, business creation and development, business plans, and business management. Students will participate in a virtual business simulation in which they create their own business plan, are awarded a loan, and successfully operate their business.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

**UCONN ESSENTIALS OF ECONOMICS**      **2001**      **0.5 CREDIT**  
GR 11-12      UCONN ECE      Meets 1/2 year

Prerequisite: Teacher Recommendation and Successful Completion of Geometry and Algebra II

A general introduction to micro- and macroeconomics. Economic concepts to be taught include opportunity costs, demand and supply, incentives, comparative advantage, inflation and employment policies, balance of international payments, and economic growth.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**NCAA Approved**

**ACCOUNTING I**      **2602**      **0.5 CREDIT**  
GR 9-12      Academic      Meets 1/2 year

Prerequisite: None

The fundamentals of accounting are presented in this course through the examination and analysis of financial information within key concepts of the accounting cycle. Students will discover accounting systems, theories and concepts through small business and corporate simulations that offer opportunities to interpret data and business conditions within an automated practice set.

*Note: students have the opportunity to earn community college credit in Accounting I if enrolled in the College Career Pathways (CCP) program.*

**Graduation Requirements Met: Arts or Vocational Ed, Elective**



# TECHNOLOGY EDUCATION

## **YEARBOOK PUBLISHING I**

**2692**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: None

The Bloomfield High School Yearbook is a student designed and produced school yearbook, where students will use publication software and on-line computer technology to create the annual high school yearbook. Students learn about Adobe Photoshop for photo editing and enhancement. Major components of the course include data collection, organization and design input. Students team build to produce and promote the yearbook within the school, and assist with outside activities to promote the books development.

**Graduation Requirements Met: Arts or Vocational Ed, S.T.E.M. Elective, Elective**

**\*Not NCAA Approved**

## **PUBLICATION DESIGN I**

**2162**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 year

Prerequisite: Graphic Communications

Developing current skills in the field of digital publication, computer graphics, digitally enhanced graphics such as multimedia presentations, and those application/software's that relate to the graphic industry. The course involves many individual products/projects, as well as team shared designs. The class will assist with creating personal products and those for outside clients that are reflective of a consumer driven market. Extensive use of computers, scanners, digital imaging (cameras) and digital out-put medium (dye-sublimation printing/color graphics) is used. Students will produce and learn how to incorporate a short story by adding pictures, video, music, and sound effects, and burn it to a DVD and they must create.

**Graduation Requirements Met: Arts or Vocational Ed, S.T.E.M. Elective, Elective**

**\*Not NCAA Approved**

## **ANIMATION**

**2132**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 year

Prerequisite: None

Animation class focuses on learning the techniques and principles of animation. Squash and Stretch, Anticipation, Staging, Straight ahead vs pose to pose, follow through, slow in slow out, arc, secondary action, timing, exaggeration, solid drawing, and appeal. We use professional Adobe Animate software and lessons touch on a number of animation aspects including acting and movement, motion graphics, cartoons, character design, storyboarding and more. It is also helpful for students to have a background in drawing or some sort of artistic skill.

**Graduation Requirements Met: Arts or Vocational Ed, S.T.E.M. Elective, Elective**

**\*Not NCAA Approved**





**GRAPHIC COMMUNICATIONS**

**2142**

**0.5 CREDIT**

GR 9-12

Academic

Meets 1/2 year

Prerequisite: None

Graphic Communications allows students insight into various graphic design techniques used professionally. Students will use processes that involve the tools and materials needed to produce self-expressed graphic designs and products that permeate their world as they see it. Emphasis will be placed on the use of computer generated art (images), develop products with traditional printing methods: silk-screen printing, black and white photography, darkroom skills, digitally rendered/enhanced photography, dye sublimation printing, as well as and web graphic designs and products.

**Graduation Requirements Met: Arts or Vocational Ed, S.T.E.M. Elective, Elective**

**\*Not NCAA Approved**

**MEDIA DESIGN AND PRODUCTION**

**2172**

**0.5 CREDIT**

GR 10-12

Academic

Meets 1/2 year

Prerequisite: Publication and Design I

Media Design class focuses on learning about video editing and video production. Students will use cameras, shoot videos, make edits, and even learn some special effects techniques. We use advanced professional video software including Adobe Premiere Pro and Adobe after Effects. This class will have the opportunity to make their own short video projects, highlight videos and commercials for the school's sports teams and special events, and more. It is very helpful if students are comfortable working with computers.

**Graduation Requirements Met: Arts or Vocational Ed, S.T.E.M. Elective, Elective**

**\*Not NCAA Approved**





# CULINARY ARTS

**FOOD AND NUTRITION FUNDAMENTALS 2282 0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year

Prerequisite: None

This course includes food laboratory experiences, use of modern appliances, demonstrations, consumer comparisons, and exposure to various cultures and cuisines. Students will explore current topics in food and nutrition, diet management, while practicing food preparation and evaluating food products. Students will research various ethnic cuisines through written reports and food experiences. Each semester will focus on the above areas. Upon successful completion of this course, students are eligible to continue with the food experiences of the Culinary Arts courses.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

**CULINARY APPLICATIONS 2292 0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year

Prerequisite: Food and Nutrition Fundamentals

In this course students will study and apply the practices of growing and consuming healthy food. Students will explore the effects of farming and natural resources and implement farm to table culinary techniques. Upon completion of this course, students will be able to develop understanding of nutrition created from fresh locally grown foods.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

**INTRODUCTION TO CULINARY 2252 0.5 CREDIT**  
GR 9-12 Academic Meets 1/2 year

Prerequisite: Food and Nutrition Fundamentals and Culinary Applications

This course introduces students to the professional food service industries, the rules of Safety and sanitation, they will be experiencing Commercial equipment and modern appliances, demonstrations, consumer comparisons, and exposure to various cultures and cuisines. Students will explore the various job positions in the food service industry, discuss current topics for healthier food choices, and customer diet management, while practicing food preparation and evaluating food products. Students will research various ethnic cuisines through written reports and food experiences. They will explore job searches through various mediums. Each semester will focus on the above areas. Upon successful completion of this course, students are eligible to continue with the food experiences of the Culinary Arts courses.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**



**CULINARY ARTS I**

**2642**

**0.5 CREDIT**

GR 10-12

Academic

Meets 1/2 year

Prerequisite: Successful completion of Introduction to Culinary

This course is designed to train students with basic food handling skills in a variety of areas within food service. The Culinary program implements up to date technology and equipment used in the industry. Students will explore interests and areas in simulated work environments in teams and individually in order to make future educational and career choices.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**

**CULINARY ARTS II**

**2942**

**0.5 CREDIT**

GR 11-12

Academic

Meets 1/2 year

Prerequisite: Successful completion of Culinary Arts I

This program is a continuation of Culinary Arts I with an emphasis on the cognitive theory of Food Service Management. Students will use reason and logic to analyze; develop and resolve situations related to the food service industry. Students will review basic food service accounting, utilizing computer programs and the Internet. Students will learn about proper nutrition in order to develop better eating habits. The primary objective of this program is to prepare students to make decisions with respect to the ever-growing food service industry.

**Graduation Requirements Met: Arts or Vocational Ed, Elective**

**\*Not NCAA Approved**





# JROTC PROGRAM

## JUNIOR RESERVE OFFICER TRAINING CORPS

### **JROTC Mission Statement: “*To Motivate Young People to Be Better Citizens*”**

The purpose of JROTC is NOT to prepare students for a military career, but to prepare them for life in today and tomorrow’s diverse and ever changing world.

### **How JROTC Supports the BHS School Mission Statement**

The Bloomfield High School’s Army’s Junior Reserve Officers’ Training Corps (JROTC), is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork, and self-discipline. Its focus is reflected in its mission statement, “*To motivate young people to be better citizens.*” It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation.

### **The JROTC program intends to teach cadets to:**

- Appreciate the ethical values and principles that underlie good citizenship.
- Develop leadership potential, while living and working cooperatively with others.
- Be able to think logically and to communicate effectively with others, both orally and in writing.
- Appreciate the importance of physical fitness in maintaining good health.
- Understand the importance of high school graduation for a successful future, and learn about college and other advanced education and employment opportunities.
- Developmental management abilities.
- Become familiar with military history as it relates to America’s culture, and understand the history, purpose, and structure of the military services.
- Develop the skills necessary to work effectively as a member of a team.



**LEADERSHIP EDUCATION AND TRAINING**

**LET I**

**2102**

**1.0 CREDIT**

GR 9-12

Academic

Meets all year

Prerequisite: None

The LET 1 curriculum promotes and encourages citizenship with an emphasis on community service. It develops student leadership potential, improves written and oral communication skills and self-discipline. It improves physical fitness, promotes high school completion and enhances life skills through time management, organizational skills and goal setting. It also promotes and fosters teamwork, provides an incentive for students to live drug free and it develops an appreciation for the military services and their accomplishments. Students learn the customs and courtesies of the armed forces; unarmed and disciplinary drills; map reading, management styles, physical fitness, and drug/alcohol abuse and prevention. Weekly classes include: physical fitness, drill and ceremony (marching), and hands-on activities in both individual and group training. Students participate in various community service and service learning projects such as food/clothing drives, mentoring programs, and visits to the VA hospital. Likewise, students will participate in JROTC activities such as color guards for sporting events, drill team exhibitions, and field trips. Students enrolled in this course will be issued uniforms and students are required to wear it once a week on the designated uniform day.

**Graduation Requirements Met: Elective**

**\*Not NCAA Approved**

**LEADERSHIP EDUCATION AND TRAINING**

**LET II**

**2202**

**1.0 CREDIT**

GR 10-12

Academic

Meets all year

Prerequisite: LET I

The LET 2 curriculum builds on those skills developed in LET-1. The importance of ethics and self-motivation to achieve goals is stressed. LET 2 students are introduced to drilling with arms, using demilitarized M-1 rifles. Community service projects continue to be emphasized and students are assigned initial leadership and/or staff positions within the Program. Students participate in various community service and service learning projects such as food/clothing drives, mentoring programs, and visits to VA hospitals. Likewise, students will participate in JROTC activities such as color guards for sporting events, drill team competitions, raider challenge competitions and field trips. Students enrolled in this course will be issued uniforms and students are required to wear it once a week on the designated uniform day.

**Graduation Requirements Met: Elective**

**\*Not NCAA Approved**





**LEADERSHIP EDUCATION AND TRAINING**

**LET III**

**2302**

**1.0 CREDIT**

GR 11-12

Academic

Meets all year

Prerequisite: LET II

The LET 3 students assume the majority of the leadership and/or staff positions within the program. LET 3 students serve as assistant instructors for LET 1 classes with training emphasis on drill; ceremony and physical training. Goal setting, time management, dealing with stress and community service continues to be emphasized. LET 3 students are responsible for organizing and conducting awards banquets, open houses, Election Day escorts, and coordinating community service and service learning projects. Students enrolled in this course will be issued uniforms and students are required to wear it once a week on the designated uniform day.

***Graduation Requirements Met: Elective***

***\*Not NCAA Approved***

**LEADERSHIP EDUCATION AND TRAINING**

**LET IV**

**2402**

**1.0 CREDIT**

GR 12

Academic

Meets all year

Prerequisite: LET III

Students at this level are the leaders of the program. LET 4 students serve as primary instructors for LET 1 and 2 classes. LET 4 students serve in staff positions and supervise the planning, coordination, and the conduct of all facets of the program. Students participate in various community service and service learning projects such as food/clothing drives, mentoring programs, and visits to VA hospitals. Students enrolled in this course will be issued uniforms and students are required to wear it once a week on the designated uniform day.

***Graduation Requirements Met: Elective***

***\*Not NCAA Approved***