# PROGRAM OF STUDIES

**BUNNELL HIGH SCHOOL • STRATFORD HIGH SCHOOL**

## GRADES 9-12


# 2023 – 2024

**STRATFORD PUBLIC SCHOOLS**

# 2023-2024

This booklet has been prepared to acquaint students and parents with the varied offerings of our schools for students entering grades 9-12. During these years, students will have the opportunity to plan individual programs of study with the help of parents, teachers, and school counselors, giving careful thought to the preparation necessary to accomplish their educational, personal, and career goals.

| | |
|---|---|
| Dr. Uyi Osunde, Ed.D. | Fallon Daniels, Ed.D. |
| Superintendent of Schools | Assistant Superintendent |

**SECONDARY SCHOOL ADMINISTRATION**

| | | |
|---|---|---|
| Bunnell High School | Katie Graf, Ed.D, Interim Principal | 203-385-4250 |
| Stratford High School | John Dellapiano, Principal | 203-385-4230 |

**STRATFORD BOARD OF EDUCATION**

Andrea Corcoran, Board Chair
Lisa Carrol-Fabian, Board Vice Chair
Amy Wiltsie, Secretary
Kristen Bedell
Janice Cupee
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**The Stratford Board of Education does not discriminate on the basis of race, color, national origin, sex, disability, [etc.] in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.**

**The following person has been designated to handle inquiries regarding the non-discrimination policies: Cortney Brown, 203-385-4213.**

Stratford Public Schools provide a free appropriate public education for all disabled/handicapped students. If you know of a disabled/handicapped student in need of services, contact the Pupil Services Office at 203-385-4225.

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**Description of Secondary Courses**



**Appendix A**



**Courses that have low enrollment/requests are not guaranteed to run. Changes may be necessary due to budget, staffing, and/or scheduling constraints. Every effort has been made to check information for accuracy.**

**STRATFORD PUBLIC SCHOOLS: DISTRICT MISSION STATEMENT**

To support the growth of the whole student through a challenging and inspiring education, within a safe and inclusive environment

**STRATFORD'S PORTRAIT OF A GRADUATE**

## INFORMATION FOR STUDENTS AND PARENTS

### SELECTION OF SUBJECTS

Each student's schedule must include the required subjects for each year and those subjects which meet promotion and graduation requirements. Stratford's high schools provide opportunities for all students to explore a wide variety of concepts in art, music, business, family and consumer science, technology education, physical education, health and world languages, as well as in language arts, mathematics, science, and social studies. Course offerings are dependent upon staffing and enrollment.

A school counselor assists each student in planning a program which is appropriate to personal needs, interests, and abilities. A carefully selected program each year will help students attain the district standards for a Stratford graduate. Part of the decision depends on the student's future plans, whether for higher education, industry, business, or a variety of other choices. A balance of studies will help develop skills necessary for immediate job entry, as well as continuation into higher education and will enrich the student's experiences, provide lifetime skills, and further the understanding of others and the world in general.

Parents/guardians are urged to take an active part in helping their children make wise decisions regarding the selection of courses and are encouraged to consult with the school counselor concerning the subject selection for each year.

Students must be enrolled in a minimum of six courses per semester.

- Some subjects may be available only at certain grade levels, and some have "prerequisites."
    - A prerequisite may establish a grade requirement or require the completion of another course before the desired course may be studied.
- Some courses may be offered every other year.
    - Students should plan their programs accordingly.

### LEVELS OF INSTRUCTION

Courses are leveled in the high schools.

- Courses English, Mathematics, Science, Social Studies, and World Language are leveled as Advanced Placement (AP)/Early College (ECE), Honors, and College Prep (CP) as noted in the Program of Studies.
- English 1 (grade 9) and English 12$^{th}$ grade half year courses, all half year social studies courses, and all Personal Finance courses are offered as College Prep (CP) with an Honors option.
- All courses in Art, Career and Technology Education, Music are offered as College Prep (CP) unless noted (Honors or AP).

Access to advanced level courses (Honors, AP, Dual Enrollment, etc.) is open to all students who have passed any prerequisite courses listed in the program of studies. In addition, teachers, administrators, school counselors, or other school personnel may recommend students who have shown academic promise and in order to encourage enrollment in an advanced course or program. Assessment scores may be used to identify additional students who may be ready for an advanced level of coursework

# PROMOTION AND GRADUATION REQUIREMENTS

| Promotion To: | Full Promotion Number of Credits | Deficient But Promoted Number of Credits | Retained Number of Credits |
|---|---|---|---|
| **Grade 10** | 6.0 | 5.0 | Below 5.0 |
| **Grade 11** | 12.0 | 11.0 | Below 11.0 |
| **Grade 12** | 18.0 | 17.0 | Below 17.0 |
| **Graduation** | 25.0 | | |

Commencing with classes **graduating in 2023**, and for each graduating class thereafter, no local or regional board of education shall permit any student to graduate from high school or grant a diploma to any student who has not satisfactorily completed a minimum of twenty-five credits, including not fewer than: (1) Nine credits in the humanities, including civics and the arts; (2) nine credits in science, technology, engineering and mathematics; (3) one credit in physical education and wellness; (4) one credit in health and safety education, as described in section 10-16b; (5) one credit in world languages, subject to the provisions of subsection (g) of this section; (6) a one credit mastery-based diploma assessment and (7) three elective credits.

**Credit Distribution Requirement**

| Area | Subjects (if specified) | Credit Requirement |
|---|---|---|
| HUMANITIES | | 9 total |
| | English | 4 |
| | Social Studies (1 World History, 1 US History, .5 Civics, .5 Elective) | 3 |
| | Arts | 1 |
| | Elective in Humanities* | 1 |
| STEM | | 9 total |
| | Science | 3 |
| | Math | 3 |
| | Personal Finance | .5 |
| | Elective in STEM** | 2.5 |
| PE and WELLNESS | | 1 |
| HEALTH and SAFETY | | 1 |
| WORLD LANGUAGE | | 1 |
| MASTERY BASED ASSESSMENT | | 1 |
| ADDITIONAL ELECTIVES | | 3 |
| | | 25 TOTAL CREDITS |

*Humanities Elective Options: The following courses can count toward the Humanities elective credit if not taken to fulfill the required credits in English, Social Studies, Arts or Career and Technology Education: Advanced Art or Independent Study, Advanced Placement Studio Art, Advanced Theatre Arts & Vocal Production, Advanced 3-D, African American/Black and Puerto Rican/Latino Studies, Annual Writing 1/2/3H, AP Language & Composition, AP Literature & Composition, UCONN Seminar and Studio in Academic Writing and Multimodal Composition, AP Music Theory, AP Psychology, Business Law, AP US Government & Politics, Ceramics, Child Development 1 & 2, Concert Band, Concert Choir, Conversations on Race, Creative Writing 1/2/3/4H, Design, Digital Art, Dystopias & Utopias in Literature and Life, Economics, Fine Art I & II, Graphic Design, If You Love It, Teach It, International Relations, Introduction to Early Childhood Education 1 & 2, Introduction to the Guitar, Introduction to Individual and Family Development,

Introduction to the Piano, Journalism 1/2/3/4H, Literacy Workshop 1 and 2, Music Technology, Music Theory, Photography, Poetry & Music, Psychology & AP Psychology, Public Speaking & Activism,Sectional Band, Select Choir, Sculpture, Sociology, Sports Literature/Sports Journalism, String Orchestra, Teachers & Schools & Society, Theatre Arts and Vocal Production, Visual Images, Wind Ensemble Honors, World Language Courses (French, Latin, and Spanish) AFTER fulfilling the 1 credit World Language requirement.

**STEM Elective Options: Any course taken in mathematics or science (beyond the three credit requirements for each subject) can be counted as a STEM elective. In addition, the following Career and Technology Education courses also qualify: Accounting 1 & 2, Advanced Manufacturing Technology, Advanced Video Production, Allied Health Exploration, AP Macroeconomics, AP Mobile Computer Science Principles, Bakeshop 1 & 2, Career Development, Civil Engineering & Architecture, Computer Applications, Culinary Assistant, Digital Electronics, Digital Text and Tools for Learning, E-Commerce 1 & 2, Engineering Design & Development, Exploring Culinary Arts 1 & 2, Foundations of Health Science 1, Foundations of Health Science 2, Int School/Career 1, Int School/Career 2, Int School/Career 3, Introduction to Athletic Training & Sports Medicine, Introduction to Business, Introduction to Culinary Arts, Introduction to Engineering Design, Introduction to Manufacturing Technology, Introduction to Transportation Technology, Introduction to Video Game Design, Living Skills and Transition, Management & Entrepreneurship, Manufacturing Technology, Medical Terminology, Personal Finance 1, Personal Finance 2: Investing Your Money, Pre-Nursing, Principles of Engineering Honors, Sports and Entertainment Marketing, Transportation Technology & Advanced Transportation Technology, Transition Practices, Video Game Design 1, Video Game Design 2 (Honors), Video Production 1 & 2, Work Experience

## ALPHA – ALTERNATIVE HIGH SCHOOL PROGRAM

The ALPHA Program provides an alternative learning experience for high school students. The program provides small instructional classes, attention to individual academic and social needs, and an environment that minimizes the distractions.

ALPHA is a program of choice with students applying for enrollment through a referral via their high school administration and school counselors. Students and their families participate in all aspects of the enrollment process and an interview is required. ALPHA students remain connected to their base high schools and may participate in all extra-curricular activities. Students are required to meet the same academic requirements for graduation as their peers at the district's traditional high schools.

Interested students or parents should contact their school counselor or administrator at the high school for more information. Acceptance is based upon the high school recommendation, administrative approval, an interview with ALPHA administration, and a visitation to the program.

# ART

| COURSE TITLE | | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| **CORE COURSES** | | | | | | |
| | Design | 1 | 9 | 10 | 11 | 12 |
| | Fine Art I* | 1 | | 10 | 11 | 12 |
| | Fine Art II* | 1 | | | 11 | 12 |
| | Advanced 3-D* | 1 | | 10 | 11 | 12 |
| | Graphic Design* | 1 | | | 11 | 12 |
| | Advanced Art or Independent Study* | .4-1 | | | 11 | 12 |
| | Advanced Placement Studio Art | 1 | | | | 12 |
| **SEMESTER COURSES** | | | | | | |
| | Drawing | .5 | 9 | 10 | 11 | 12 |
| | Photography | .5 | 9 | 10 | 11 | 12 |
| | Sculpture | .5 | 9 | 10 | 11 | 12 |
| | Ceramics | .5 | 9 | 10 | 11 | 12 |
| | Digital Art | .5 | | 10 | 11 | 12 |
| | Independent Study* | .4-1 | | | 11 | 12 |

**It is recommended that all students take Design prior to taking other art courses. Several courses require the successful completion of Design as a prerequisite.**

*Courses with a prerequisite requirement.

**Art: Possible Course Sequences**

| Year 1 -4 Semester Courses | Year 1 Full Year Course | Year 2, 3 or 4 Full Year & Semester Courses | |
|---|---|---|---|
| Drawing (Semester) | Design (Full Year) | Advanced 3-D (full year) | Advanced 3-D (full year) |
| Photography I (Semester) | | Fine Art 1 (Full Year) | Fine Art II (Full Year) |
| Sculpture (Semester) | | Digital Art (Semester) | |
| Ceramics (Semester) | | Graphic Design (Full Year) | Advanced Art (Full Year) |
| | | | AP Art (Full Year) Additional Course Requirements |

**ART CORE COURSES Grades 9-12**

**All art courses meet the Arts graduation requirement**

**Design** - 701H **-** 1 Credit **Humanities**

This full year course is the foundation for all learning in the Art Department and can prepare the student for a program that will lead to a career in the visual arts. Creative projects involve learning and applying all the art elements of line, shape, value, texture, color, form and space in a variety of media. There is an emphasis on craftsmanship and exploring an array of art tools and techniques. Students will work independently as well as collaboratively on their artistic journeys.

**Prerequisite: None (Note: There is a $10.00 material fee requirement for this class.)**

**Fine Art I** - 702H - 1 Credit **Humanities**

This full year, intermediate level art class emphasizes drawing, painting and design experiences through the exploration of many genres of art including still life, figure drawing, and landscape composition. This course is scaffolded to build on prior learning in the DESIGN course. Students will work independently as well as collaboratively on their artistic journeys

**Prerequisite: Design (Note: There is a $10.00 material fee requirement for this class.)**

**Fine Art II** - 703H - 1 Credit **Humanities**

In this full year, advanced level art class, students will be exposed to a wide variety of non-objective design, drawing, painting, printmaking, art technology and independent study to develop their aesthetic and personal style. Students will explore in depth the art principles of Balance, Rhythm/Movement, Contrast, Emphasis, Pattern and Unity. This course is scaffolded to build on prior learning in FINE ART 1 course. Students will work independently as well as collaboratively on their artistic journeys. Preparation of a portfolio is required.

**Prerequisite: Fine Arts I (Note: There is a $10.00 material fee requirement for this class.)**

**Advanced 3-D -**717H - 1 Credit **Humanities**

The student will learn advanced craft techniques, resulting in sophisticated and imaginative works. Through the use of unusual materials and more complex tools and equipment, this full year course provides the student with the opportunity to combine his/her imagination with time proven techniques. Areas of focus include: fibers, jewelry design, and clay modeling. The materials used include fibers, fabrics, wire, beads and jewelry tools as well as clay. Some extra materials may need to be supplied by the student. **Prerequisite: Ceramics, Sculpture, or Design (with passing grade).**

**Graphic Design** - 706H - 1 Credit **Humanities**

This full year, advanced course of study provides instruction in the use of graphic design in the commercial art world – art that conveys a message. Instruction will be provided in computer layout (Adobe Illustrator, Photoshop, InDesign), art media and design principles to create sophisticated solutions for use in communications and real-world applications. Preparation of a portfolio is required.*Prerequisite (with passing grade) - DESIGN or FINE ART 1 or PHOTOGRAPHY or DIGITAL ART*. There will be an emphasis on honing technical skills as well as creative, critical-thinking and problem-solving skills. Ability to communicate effectively through one's designs is an important component in this course**.**

**(Note: There is a $10.00 materials fee and portfolio submission fee required.)**

**Advanced Art or Independent Study** - 707H - 0.4 - 1 Credit **Humanities**

Students may contract with a staff member for an individualized program of study that focuses on in-depth experience for advanced experimentation in the media of the student's choice. A portfolio is required. Flexible scheduling is available with instructor's permission. **Prerequisite: Approval of the instructor, student must earn a passing grade in Design, Fine Arts I, and Fine Arts II and a history of portfolio work. (Note: There is a $10.00 materials fee and portfolio submission fee required.)**

**Advanced Placement Studio Art** - 708HAP - 1 Credit **Humanities**

The College Entrance Examination Board prepares the requirements for this course. Advanced Placement Studio Art should be taken by the student who seriously wants to pursue a career in art and has the self-discipline and commitment to spend time beyond the school day preparing for the Advanced Placement Portfolio. The required portfolio is submitted to the College Board for evaluation. Flexible scheduling with instructor's permission. **Prerequisite**: **Approval of the instructor, student must earn a passing grade in Design, Fine Art I, and Fine Art II and a history of portfolio work. (Note: There is a $10.00 material fee requirement for this class.)**

## ART SEMESTER COURSES

**Drawing** - 700H - .5 Credit **Humanities**

Drawing is a one semester course for the student who wants to learn to draw or to improve personal drawing skills. Course work is devoted to the exploration of pencil, pen and mixed media rendering techniques for the portrayal of realistic and imaginary subject matter.
Preparation of a portfolio is required.
**Prerequisite: None (Note: There is a $10.00 material fee requirement for this class.)**

**Photography - 711H - .5 Credit Humanities**

The course objective is to learn to capture artistic photographs with a digital camera and use digital photo editing programs to manipulate images. Subject matter will vary from landscapes to portraits and abstract images. Photography prepares the student to use a variety of photographic equipment and to learn the basic functions of Adobe Photoshop. Students may use their own digital cameras. School cameras are also available. **Prerequisite: None. Design is recommended but not required prior to taking this course. (Note: There is a $10.00 material fee requirement for this class.)**

**Sculpture** - 709H - .5 Credit **Humanities**

A one semester course that applies the elements of design and the imagination to produce three-dimensional additive and subtractive sculptural forms. The materials used include clay, metal, paper, and plaster, which are formed into free standing, relief, or suspended structures.

**Prerequisite: None. Design is recommended but not required. (Note: There is a $10.00 material fee requirement for this class.)**

**Ceramics** - 710H - .5 Credit **Humanities**

The student will progress through a variety of challenging experiences with clay involving traditional and contemporary ceramic techniques used by the skilled craftsmen. This course also offers the basis for an individual vocation in adult life. **Prerequisite: None. Design is recommended but not required. (Note: There is a $10.00 material fee requirement for this class.)**

**Digital Art** - 718H - .5 Credit **Humanities**

This one semester course is for students who want to create art on the computer using Adobe CC Suite software; Photoshop and Illustrator programs used in the professional workplace. While exploring visual aesthetics, such as the elements of art, principles of design and compositional rules, students will create raster based pixel art as well as vector art, digital collaging, gifs and animation. The Digital Art classes are the technological complement to the more hand-based 2-D Design classes. The materials used include Apple desktop computers with wacom style tablets. Students may work at home on personal tablets.
Prerequisite: Digital Photography recommended.

# CAREER & TECHNOLOGY EDUCATION (CTE)

## General CTE Course

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Career Development | .5 | 9 | 10 | 11 | 12 |

**Career Development** - 820H - .5 Credit **STEM**

This course motivates students to take control of their future by planning for their careers today. Students engage in virtual job shadowing and career advice videos which takes career exploration to a whole new level by connecting academics to the real world. Students will develop a portfolio which will be a collection of work that tells the story of their efforts, progress, and achievements along with a resume, cover letter, thank you letter, reference letters, certificates of achievement, evidence of community activities etc. Guest speakers will also be used to enhance classroom activities. This course ensures that students' academic pursuits align with their career goals.

## CTE: BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER

### Business Information Management Pathway

**Graduation Requirement:** All students must earn 2.5 credits in STEM Electives and .5 credits in a Personal Finance 1 course.

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Business | .5 | 9 | 10 | 11 | 12 |
| Business Law | .5 | 9 | 10 | 11 | 12 |
| Computer Applications | .5 | 9 | 10 | 11 | 12 |
| Management & Entrepreneurship | .5 | 9 | 10 | 11 | 12 |
| Personal Finance 1 (Honors Option) | .5 | 9 | 10 | 11 | 12 |
| Personal Finance 1 Honors Online | .5 | 9 | 10 | 11 | 12 |
| Personal Finance 2: Investing Your Money | .5 | 9 | 10 | 11 | 12 |
| Accounting 1 (AP/College Level) | 1 | | 10 | 11 | 12 |
| Accounting 2 | 1 | | | 11 | 12 |
| AP Macroeconomics | 1 | | | 11 | 12 |

**Business Information Management Pathway: Possible Course Sequences**

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| Personal Finance 1 or Personal Finance 1 Honors | Personal Finance 2 | Management & Entrepreneurship AND Business Law | AP Macroeconomics (pending Board approval) |
| Personal Finance 1 or Personal Finance 1 Honors | Introduction to Business (pending Board approval) | Accounting 1 | Accounting 2 |
| Introduction to Business (pending Board approval) | Computer Applications | Management & Entrepreneurship AND Business Law | AP Macroeconomics (pending Board approval) |

**Introduction to Business** - 812H- .5 Credit **STEM**
This course welcomes students to the World of Business. This half-year course highlights each of the major sectors in business including Marketing, Accounting, Hospitality/Tourism, Business Law, and Entrepreneurship.

**Business Law** - 804H - .5 Credit **Humanities**
This course is designed to provide all students with a better understanding of the legal world in which they work and live. Students learn essential concepts of law including their rights and responsibilities as citizens and employer/employees. Some of the business topics discussed include: employment law, property law, contract law, leases, laws of sales and commerce, agency law and white-collar crime.

**Computer Applications** - 800H - .5 Credit **STEM**
This course is designed for students to develop computer skills software ~~t~~hat includes Word Processing Spreadsheet, and Presentation Graphics.

**Management & Entrepreneurship** - 803H - .5 Credit **STEM**
This course is designed to introduce students to the business world. Students develop an idea or concept into an actual business venture. They will identify key factors that will help them decide if their idea represents a real business opportunity. Students will study the interplay between marketing, manufacturing, financing, accounting and management. Students develop skills necessary to promote business ideas, test their feasibility and complete a business plan. This course offers hands-on activities, community partnerships and various guest speakers.

**Personal Finance 1 (Honors Option Available)** - 805H/805HH - .5 Credit **STEM**
Personal Finance helps students build a solid foundation for financial independence and future financial decisions. Students will learn about saving, spending, and credit. Topics will include preparing a monthly budget, planning for college expenses, buying a car, earning a paycheck, renting an apartment, investing their money and more. Guest speakers will enhance classroom activities. **Successful completion of this course will meet the Personal Finance graduation requirement.** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the Honors component. Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Personal Finance 1 Honors On-Line** - 811HH - .5 Credit **STEM**
This is an on-line honors level course available to students with unavoidable scheduling conflicts. **Successful completion of this course will meet the Personal Finance graduation requirement.**

**Personal Finance 2: Investing Your Money** - 806H - .5 Credit **STEM**
This course will explore various vehicles for investing including stocks, bonds, and mutual funds. The world of investing and the operation of the stock market are the key components of this course. Students will evaluate and analyze many investment options in a collaborative environment. Emphasis is placed on developing the skills of global awareness, collaboration, oral and written communication, critical thinking, problem solving and a well-defined work ethic. Students will participate in the Stock Market Game. **Prerequisite: Student must earn a passing grade in Personal Finance 1.**

**Accounting 1 (AP/College Level)** - 807H - 1 Credit **STEM**
This course will focus on the principles and procedures for keeping accurate records and the use of this information to make informed personal and business decisions. Preparation of financial statements, accounting practices for business (service or merchandising), and procedures for completing payroll activities are among the topics covered. This course provides an in-depth study of specific accounting

problems for proprietorships and partnerships utilizing manual and computer-based accounting systems. Eligible students may receive college credit for this course. **Please note: Successful completion of Accounting 1 (full year course) may be applied as a mathematics credit for graduation. Students must complete Algebra 1, Geometry and Algebra 2 or be concurrently enrolled in Algebra 2 before Accounting can be used for math credit. Students will have the option to use the credit as a math credit or as a STEM elective credit.**

**Accounting 2** - 808H - 1 Credit **STEM**
This course deals with basic financial reporting issues for corporations such as the identification of the users and uses of financial accounting information, the processing and recording of economic transactions, the preparation of financial statements and the interpretation of financial data. Emphasis is placed on automated accounting procedures. **Prerequisite: Student must earn a passing grade in Accounting 1.**

**AP Macroeconomics- 813H- .5 Credit** **STEM**
A one-semester, introductory college course in macroeconomics. Explore the principles of economics that apply to an economic system as a whole. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. Students will be able to define economic principles and models, explain given economic outcomes, determine outcomes of specific economic situations, model economic situations using graphs or visual representations. **Prerequisite: Student must be concurrently enrolled in or have previously taken Algebra 2.**

## CTE: EDUCATION AND TRAINING CLUSTER
## Teacher/Training Pathway

| COURSE TITLE | | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| ***Early Childhood and Elementary Teaching Pathway*** | | | | | | |
| | Child Development 1 | .5 | 9 | 10 | 11 | 12 |
| | Child Development 2 | .5 | 9 | 10 | 11 | 12 |
| | Introduction to Early Childhood Education 1 | .5 | | 10 | 11 | 12 |
| | Introduction to Early Childhood Education 2 (AP/College Level) | .5 | | 10 | 11 | 12 |
| Course offered in rotation during even graduation years | Introduction to Individual and Family Development (AP/College Level) | 1 | | | 11 | 12 |
| ***Secondary Education Pathway*** | | | | | | |
| | Teachers, Schools and Society (AP/College Level) (spring course) | .5 | | | 11 | 12 |
| | Digital Texts, Tools, and Society (AP/College level) (fall course) | .5 | | | 11 | 12 |
| Course offered in rotation during odd graduation years | If You Love it, Teach it ECE (AP/College Level), (spring course) | .5 | | | 11 | 12 |
| Course offered in rotation during odd graduation years | Introduction to Special Education (AP/College Level) (fall course) | .5 | | | 11 | 12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Course offered in rotation during even graduation years | Introduction to Individual and Family Development (AP/College Level) | 1 | | | 11 | 12 |

**Teacher/Training Pathway: Possible Course Sequences**

| | Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|---|
| **Secondary Education Pathway** | Child Development 1 AND Child Development 2 | Intro to Early Childhood Education 1 AND Intro to Early Childhood Education 2 | Digital Text and Tools for Learning AND Teachers, Schools and Society OR Intro to Individual and Family Development (AP/College Level) | Digital Text and Tools for Learning AND Teachers, Schools and Society OR If You Love It, Teach It AND Introduction to Special Education |
| | | | | |
| **Early Childhood and Elementary Teaching Pathway** | Child Development 1 AND Child Development 2 | Intro to Early Childhood Education 1 AND Intro to Early Childhood Education 2 | Intro to Individual and Family Development (AP/College Level) | If You Love It, Teach It AND Introduction to Special Education |

**Child Development 1** - 570H - .5 Credit **Humanities**
This course explores human growth and development from the prenatal stages through infancy. Topics will include: decision making, roles and responsibilities of a parent, prenatal care, labor and delivery, care of the newborn and infant and the importance of early literacy intervention in the development of children.

**Child Development 2** - 571H - .5 Credit **Humanities**
This course includes the study of the toddler with emphasis on the physical, intellectual, emotional, and social development. The course will also focus on positive discipline, appropriate activities for young children, reading and language development. Anyone who desires a career in education or working with children should consider this course. **Prerequisite: Student must earn a passing grade in Child Development 1.**

**Digital Text and Tools for Learning (AP/College Level)** - 558H - .5 Credit **STEM**
This course highlights the shifting nature of literacy and social practices as new digital texts and tools emerge. Students will be instructed in the technological fluencies required in the 21st century. **It is recommended that Child Development be taken prior to this college level course.** Students may have the opportunity to apply for college credit.

**Introduction to Early Childhood Education 1** - 572H - .5 Credit **Humanities**
This course includes the study and observations (lab school/field trips) of the preschooler with the emphasis on their physical, intellectual, emotional, and social development. Students interested in social work, psychology, education, nursing, and the expanding fields of childcare are encouraged to take this

course. **It is highly recommended that Child Development be taken prior to this college level course. In order to be eligible for college credit, students must take both semesters of Early Childhood Education.**

**Introduction to Early Childhood Education 2 (AP/College Level)** - 573H - .5 Credit **Humanities**
This college level course is designed for students interested in careers working with children and will include trends in early childhood education, classroom design and behavior modification with opportunities to observe preschool children. Eligible students may receive college-credit for this course. **In order to be eligible for college credit, students must take both semesters. Prerequisite: Student must earn a passing grade in Early Childhood Education 1.**

**Introduction to Individual & Family Development (AP/College Level)** - 574H - 1 Credit **Humanities**
This college level course is highly recommended for students who are preparing for careers in education, human services, psychology, family studies, social work, and health occupations. Admission is based on academic performance, attendance, and citizenship. It is an introduction to the general study of human development from conception through old age. The course examines physical, intellectual, social, and emotional growth across the lifespan, emphasizing that development results from the interdependence of these areas at every stage. The course may require 30 additional hours of field experience beyond the classroom which could include an internship/extended learning experience. **Please note that sites for hands-on workplace learning may require students to have COVID and/or flu vaccinations or additional vaccinations in order for students to participate.** Students may have the opportunity to apply for college credit. **Prerequisite**: **Student must earn a passing grade in English 1.**

**Teachers, Schools and Society (AP/College Level)** - 559H - .5 Credit **Humanities**
This course offers an examination of the social, cultural, and political origins of contemporary schooling, with a focus on schools as social institutions that reflect larger social conflict and change. The course focuses on the role of teachers as both actors and subjects of educational reform movements. Course includes required field experiences in an educational setting. **It is recommended that Child Development be taken prior to this college level course.** Students may have the opportunity to apply for college credit.

**If You Love it, Teach It (AP/College Level)** - 557HE .5 Credit **Humanities**
This college level course is highly recommended for students who are preparing for careers in education. This class will study K-12 teaching, learning, and schooling in the United States. There is a focus on historical, philosophical, and social foundations of education as well as self-study to reimagine educational futures. 10 hours of field experience may be required. **Please note that sites for hands-on workplace learning may require students to have COVID and/or flu vaccinations or additional vaccinations in order for students to participate.** Students may have the opportunity to apply for college credit. **It is highly recommended that Child Development be taken prior to this college level course.**

**Introduction to Special Education (AP/College Level)** - 556HE.5 Credit **Humanities**
This college level course is highly recommended for students who are preparing for careers in education, human services, psychology, family studies, social work, and health occupations. This course will focus on Special Education services in American Education, including various exceptionalities and the roles of professionals. Students may have the opportunity to apply for college credit. **It is highly recommended that Child Development be taken prior to this college level course.**

# CTE: HEALTH SCIENCE CLUSTER
## Therapeutic Services Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Allied Health Exploration (AP/College Level) | .5 | | 10 | 11 | 12 |
| Foundations of Health Science I | .5 | | 10 | 11 | 12 |
| Foundations of Health Science II | .5 | | | 11 | 12 |
| Medical Terminology (AP/College Level) | .5 | | | 11 | 12 |
| Pre-Nursing | 1 | | | | 12 |
| Introduction to Athletic Training & Sports Medicine | 1 | | | | 12 |

**Therapeutic Services Pathway: Possible Course Sequence**

| Year 1 | Year 2 (by application) | Year 3 (by application) |
|---|---|---|
| Allied Health Exploration UCONN ECE - Semester 1<br><br>Foundations of Health Science I - Semester 2 | Foundations of Health Science II -Semester 1<br><br>Medical Terminology UCONN ECE - Semester 2 | Pre-Nursing/CNA Training<br>OR<br>Introduction to Athletic Training & Sports Medicine |

**Allied Health Exploration (AP/College Level)** - 862H - .5 Credit (fall only) **STEM**
This college-level exploratory class will give students the opportunity to learn about a variety of career pathways in the healthcare field. Students will engage in learning about the history of healthcare, healthcare systems and trends as well as a deep dive into the five career pathways of Therapeutic Services, Diagnostic Services, Biotechnology & Research Services, Support Services and Health Informatics Services. Students will meet with a variety of professionals from various healthcare professions and will have the opportunity for deeper exploration into the characteristics of a healthcare professional. **Prerequisite: Students must have successfully completed or be enrolled concurrently in Human Biology (Biology)**

**Foundations of Health Science I- 866H-.5 credits (Spring only)** **STEM**
This second class in the Health Science Cluster will lay the groundwork for a career in healthcare services. Students will engage in a series of hands-on clinical competencies and lessons that will support their learning about key topics such as Communication in Healthcare, Ethics & the Law, Safety Issues in the Healthcare Environment,Human Needs and an Introduction to Medical Math. The skills they develop in this class will prepare them for further study and/or entry into the healthcare field. This class is part one of the series that continues in the second level of the pathway. *The opportunity to earn the following workplace credentials may be offered at an additional fee: HIPAA compliance, OSHA workplace safety and blood borne pathogen training.* **Prerequisite: Students must complete Allied Health Exploration ECE with a passing grade in order to continue in this pathway class during spring semester**

**Foundations of Health Science II - 867H-.5 credits (Fall only)** **STEM**
Foundations of Health Science II is open to qualified juniors and seniors who have successfully completed Allied Health Exploration and Foundations of Health Science I. Admission is based on academic performance, attendance, citizenship, and teacher recommendations. See instructor for exact program requirements. As in the level one class, students will engage in a series of hands-on competencies and

lessons that develop their understanding of a variety of topics common to all healthcare professions including Disease, Infection & Infection Control, Body Structures & Functions, Introduction to Basic Life Support (BLS) and First Aid. *The opportunity to earn the following credentials may be offered at an additional fee: BLS Certification, Stop the Bleed Certification and First Aid Certification.* **Prerequisite: Students must complete Allied Health Exploration, Foundations of Health Science 1, be recommended through the application process and be registered to take Medical Terminology in the spring of Junior or Senior year**

**Medical Terminology (AP/College Level)** - 864H - .5 Credit (spring only) **STEM**
Medical Terminology is a college-level course introduces students to and guides them through the exploration of the language of healthcare. Students will learn through the presentation of word roots, prefixes and suffixes and a close examination of human anatomy & physiology. Terminology associated with disease processes, symptoms, diagnosis, clinical procedures, laboratory tests, and treatments that affect various body systems will be explored. **Prerequisite: Students must complete Allied Health Exploration, Foundations of Health Science 1 and be recommended through the application process.**

**Pre-Nursing Program** - 874HH - 1 Credit **STEM**
This is a full year course for students entering their senior year. Students learn the theory and skills necessary for entry into the healthcare field as a Certified Nursing Assistant. This class follows an intensive curriculum which combines both classroom and skill lab learning. Additionally, to the greatest extent possible, during the spring students will spend one day a week at a clinical site where, under the supervision of their instructor, they provide hands-on patient care. The remainder of the week is spent in the high school classroom where students continue to expand their knowledge and skills This program follows the guidelines set forth by the Connecticut State Department of Health, as well as the Connecticut State Department of Education, which state that all students must complete a total of 60 clinical hours. **Successful completion of this program and the state exam may lead to registration as a Certified Nursing Assistant and/or Medical Assistant. There is an additional cost associated with the certification**. **Prerequisite: Students must be recommended through the application process and have completed all previous classes in the Therapeutic Services Pathway.** ***Please note that sites for hands-on workplace learning may require students to have COVID and/or flu vaccinations or additional vaccinations in order for students to participate***

**Introduction to Athletic Training & Sports Medicine - 868H- 1 credit** **STEM**
In this full year course, students learn the theory and skills necessary for entry into the health care setting in rehabilitation therapy or sports/athletic training. To the greatest extent possible, students will have the opportunity to shadow the AT at BHS. Additionally, and again to the greatest extent possible, students will spend one day a week at a clinical site where, under the supervision of their instructor, they observe and support physical therapists in their delivery of patient care. **Prerequisite: Students must be recommended through the application process and have completed all previous classes in the Therapeutic Services Pathway.** ***Please note that sites for hands-on workplace learning may require students to have COVID and/or flu vaccinations or additional vaccinations in order for students to participate***

# CTE: HOSPITALITY AND TOURISM CLUSTER
## Restaurant, Food, Beverage, and Services Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Culinary Arts | .5 | 9 | 10 | 11 | 12 |
| Bakeshop 1 | .5 | | 10 | 11 | 12 |
| Bakeshop 2 | .5 | | 10 | 11 | 12 |
| Exploring Culinary Arts 1 | .5 | | 10 | 11 | 12 |
| Exploring Culinary Arts 2 | .5 | | 10 | 11 | 12 |
| Culinary Assistant (pending availability) | .5/1 | | | 11 | 12 |

**Restaurant, Food, Beverage, and Services Pathway: Possible Course Sequences**

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| Introduction to Culinary Arts | Exploring Culinary Arts 1 AND Exploring Culinary Arts 2 | Bakeshop 1 AND Bakeshop 2 | Culinary Assistant (pending availability) |
| Introduction to Culinary Arts | Bakeshop 1 AND Bakeshop 2 | Exploring Culinary Arts 1 AND Exploring Culinary Arts 2 | Culinary Assistant (pending availability) |

**Introduction to Culinary Arts** - 560H - .5 Credit **STEM**

This course is for students who are interested in learning about all aspects of food. Topics include consumerism, nutrition, safe food storage, kitchen safety, measurement and equivalents, terminology and cooking techniques. Emphasis will be placed on proper cooking and preparation techniques in the areas of fruits, vegetables, breads, grains, meats, poultry, dairy and pastry products. Students will learn life-long skills necessary for developing and maintaining healthy diets.

**Bakeshop 1** - 563H - .5 Credit **STEM**

This course is designed to provide students with an understanding of the principles of Baking and Pastry Making utilizing commercial equipment and techniques. Students will learn about safety and sanitation; the primary function of ingredients; baking formulas; weights and measurements; and proper maintenance, cleaning and storage of equipment. The students will experiment with Cookies, Quick Breads, Yeast Breads, Pies and Pastries, Dessert Sauces. The course is designed to give students exposure to careers within the culinary field. This course is open to students in grades 10-12. Bakeshop 1 cannot be taken concurrently with Exploring Culinary Arts 1 or 2 unless teacher permission is granted. **Prerequisite: Student must earn a passing grade in Introduction to Culinary Arts.**

**Bakeshop 2** - 564H - .5 Credit **STEM**

This course is designed for students interested in careers in the Culinary Industry. The course expands on the skills and techniques learned in Bakeshop I. Advanced topics include Creams and Custards, Meringues, Chocolate Work, Garnishing and Plating, Pastry Techniques, Cakes, Frostings, Icings and Careers in the Baking Industry. In addition, students will prepare a variety of products for the student operated restaurant or other community functions. This course is open to students in grades 10-12. Bakeshop 2 cannot be taken concurrently with Exploring Culinary Arts 1 or 2 unless teacher permission is granted. **Prerequisite: Student must earn a passing grade in Bakeshop 1.**

**Exploring Culinary Arts 1** - 561H - .5 Credit **STEM**

This course is designed for students interested in a career in professional food services. Topics of study include careers in the food service industry, use and care of commercial equipment and tools, techniques of quantity cooking, meal planning, and kitchen sanitation and safety. Students run a take-out restaurant. This course is open to students in grades 10-12. Exploring Culinary Arts 1 cannot be taken concurrently with Bakeshop 1 or 2 unless teacher permission is granted. **Prerequisite: Student must earn a passing grade in Introduction to Culinary Arts.**

**Exploring Culinary Arts 2** - 562H - .5 Credit **STEM**

This course is designed for students interested in a career in professional food services. The course strengthens and expands the culinary art skills learned in Culinary Arts I. Topics of study include menu planning, restaurant management, kitchen organization, dining room management and careers in the food service industry. The students run a sit down restaurant as part of the program. This course is open to students in grades 10-12. Exploring Culinary Arts 2 cannot be taken concurrently with Bakeshop 1 or 2 unless teacher permission is granted. **Prerequisite: Student must earn a passing grade in Exploring Culinary Arts 1.**

**Culinary Assistant** (pending availability) - 565H - .5/1 Credit **STEM**

Students who have completed two years in the Culinary Pathway may work by contract with a staff member on an individual program focusing on in-depth experiences of the Culinary Industry. **Prerequisite**: **Permission of Instructor.**

## CTE: INFORMATION TECHNOLOGY CLUSTER

## Web and Digital Communications Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Video Game Design | .5 | 9 | 10 | 11 | 12 |
| Video Game Design 1 | 1 | | 10 | 11 | 12 |
| Video Game Design 2 (Honors) | 1 | | | 11 | 12 |
| AP Mobile Computer Science Principles | 1 | | 10 | 11 | 12 |
| Video Production 1 | .5 | 9 | 10 | 11 | 12 |
| Video Production 2 | .5 | 9 | 10 | 11 | 12 |
| Advanced Video Production | 1 | | 10 | 11 | 12 |

**Web and Digital Communications Pathway: Possible Course Sequences**

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| Introduction to Video Game Design | Video Game Design 1 | Video Game Design 2 (Honors) | AP Mobile Computer Science Principles |
| Video Production 1 | Video Production 2 | Advanced Video Production | |

**Introduction to Video Game Design** - 411H - .5 Credit **STEM**

In this class students will analyze game theory and game mechanics from a game maker's perspective. After students understand the fundamental concepts of creating various board games, they will be introduced to 2D gaming software. Students will use multiple sources in a self-directed environment to create a variety of interactive video games. This course will serve as a foundation for the process of video game design.

**Video Game Design 1** - 412H - 1 Credit **STEM**

This class is a continuation of Introduction to Video Game Design. Video Game design students will perform critical analyses of video games in order to gain a better understanding of play mechanics. Students will continue to work with 2D gaming software while learning game design techniques. These skills will enable the student to assemble interactive and engaging experiences for the users of their systems and applications. As part of the learning experience, students will gain valuable skills that will lead to the use of 3D gaming software that introduces the learner to basic animation tools and techniques.
**Prerequisite: Student must earn a passing grade in Introduction to Video Game Design.**

**Video Game Design 2 (Honors)** - 413HH - 1 Credit **STEM**

This course will share introductory game design techniques enabling the student to assemble interactive and engaging experiences for the users of their systems and applications. As part of the learning experience, students will gain valuable skills while using the Unity 3D application development environment. Concepts that will be covered include: lighting effects, rendering video, special effects such as explosions and glow, and editing video and sound. The final project is to create an animation that teaches a lesson. **Prerequisite: Student must earn a passing grade in Video Game Design 1.**

**AP Mobile Computer Science Principles** - 441 HAP - 1 Credit **STEM**

In this course students will learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity. This course is supported by the Mobile Computer Science Principles Project (Mobile CSP), an NSF-funded effort to provide a broad and rigorous introduction to computer science based on App Inventor, a mobile programming language for Android devices. The course is based on the College Board's Advanced Placement (AP) Computer Science Principles framework for introductory computer science. **Prerequisite: Students must earn a passing grade in Algebra 1.**

**Video Production 1** - 414H - .5 Credit **STEM**

This course introduces the basics of video production utilizing a personal camcorder and video editing equipment. Students study video technologies, basic equipment operation, video composition, basic lighting, audio production planning, and visual storytelling. Students work in groups to create video projects utilizing post-production editing.

**Video Production 2** - 415H - .5 Credit **STEM**

This course is a continuation of Video Production 2 in a video studio production setting. Students learn studio production planning, lighting, and audio along with basic video engineering. Students practice all crew positions including floor director, camera operator, lighting technician, audio technician, technical director and program director. **Prerequisite: Student must earn a passing grade in Video Production 1.**

**Advanced Video Production** - 416H - 1 Credit **STEM**

Various production techniques for a variety of video applications are included in this advanced video course. These techniques include theatrical, news gathering, informational, and documentary-style productions. Students focus on pre-production planning and combining studio and field production into a final presentation. As part of this course, students will help produce programming for broadcast. **Prerequisite: Student must earn a passing grade in Video Production 2.**

# CTE: MANUFACTURING CLUSTER
## Manufacturing Production Process Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Manufacturing Technology | .5 | 9 | 10 | 11 | 12 |
| Manufacturing Technology | 1 | | 10 | 11 | 12 |
| Advanced Manufacturing Technology | 1 | | | 11 | 12 |

**Manufacturing Production Process Pathway: Possible Course Sequence**

| Year 1 | Year 2 | Year 3 |
|---|---|---|
| Introduction to Manufacturing Technology | Manufacturing Technology | Advanced Manufacturing Technology |

**Introduction to Manufacturing** - 421H - .5 Credit **STEM**

Students are introduced to technical principles and concepts of material structure, properties, and testing methods for the major material families (metals, polymers, wood) as it relates to material selection and processing decisions. Students will also be introduced to the safe use of tools needed to process materials in the industry. Additionally, students will be introduced to Computer Aided Manufacturing (CAM) as well as CNC operations. This will include two-dimensional geometry, tool paths, and set up. Software used will include Fusion 360, Inventor and Mastercam.

**Manufacturing Technology** - 422H - 1 Credit **STEM**

Students are instructed on the safe use of stationary and portable power equipment used in the construction and manufacturing industries to complete a project and learn about job-site safety. Students will continue to grow their knowledge of Computer Aided Manufacturing (CAM) as well as CNC operations. This will include three-dimensional geometry, tool paths, and set up. A small structure will be designed and constructed with a variety of materials and construction techniques. Students will be introduced to joinery and more advanced manufacturing techniques. **Prerequisite: Student must earn a passing grade in Introduction to Manufacturing Technology.**

**Advanced Manufacturing Technology** - 423H - 1 Credit **STEM**

Students will investigate careers in the manufacturing industry and utilize tools and equipment to design and manufacture projects. In this advanced class, students will expand their skills acquired from the foundations class and demonstrate knowledge of a variety of industrial materials and processes. Some of the tools and equipment that will be used include CAD/CAM, MasterCAM, Solidworks, CNC Router. Projects and equipment may vary between schools. **Prerequisite: Student must earn a passing grade in Manufacturing Technology.**

# CTE: MARKETING CLUSTER
## Marketing Management Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Business | .5 | 9 | 10 | 11 | 12 |
| E-Commerce 1 | .5 | 9 | 10 | 11 | 12 |
| E-Commerce 2 | .5 | 9 | 10 | 11 | 12 |
| Management & Entrepreneurship | .5 | 9 | 10 | 11 | 12 |
| Sports and Entertainment Marketing | .5 | 9 | 10 | 11 | 12 |

**Marketing Management Pathway: Possible Course Sequence**

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| Introduction to Business (pending Board approval) | Sports and Entertainment Marketing AND/OR Management & Entrepreneurship | E-commerce 1 AND/OR Management & Entrepreneurship | E-Commerce 2 |

**Introduction to Business** - 812H- .5 Credit **STEM**

This course welcomes students to the World of Business. This half-year course highlights each of the major sectors in business including Marketing, Accounting, Hospitality/Tourism, Business Law, and Entrepreneurship.

**E-Commerce 1** - 801H - .5 Credit **STEM**

In this hands-on computer class, students will learn how to plan, design, develop and evaluate effective strategies for businesses or an individual client using modern online/industry-standard communication tools. Intellectual property laws and copyright laws are also discussed. Students will learn how to design marketing tools using web and app development software and how to make marketing tools for use on phones, tablets and computers user-friendly. Businesses today are including E-commerce and social media in their marketing and business strategies. Students will learn how to become the technically skilled employees needed to achieve these goals.

**E-Commerce 2** - 802H - .5 Credit **STEM**

This course is intended for students who want to build more complex sites, expand their knowledge of website development and electronic commerce strategies, and incorporate advanced web-marketing techniques. **Prerequisite:** Student must earn a passing grade in E-Commerce 1.

**Management & Entrepreneurship** - 803H - .5 Credit **STEM**

This course is designed to introduce students to the business world. Students develop an idea or concept into an actual business venture. They will identify key factors that will help them decide if their idea represents a real business opportunity. Students will study the interplay between marketing, manufacturing, financing, accounting and management. Students develop skills necessary to promote business ideas, test their feasibility and complete a business plan. This course offers hands-on activities in addition to various guest speakers.

**Sports and Entertainment Marketing** - 810H - .5 Credit **STEM**

Whether you are watching a famous athlete make an unbelievable play or witnessing a sensational singing performance or streaming the latest viral marketing campaign, the world of sports and entertainment is never boring. Although it may seem impossible for you to be a part of this glittery world, it's not! The Sports and Entertainment Marketing field offers careers that combine entertainment with traditional marketing, but with a whole lot more glamour. Explore basic marketing principles while delving deeper into the multibillion dollar sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful. This course will show you how things work behind the scenes of a major entertainment event and how you can be part of the act.

## CTE: SCIENCE, TECHNOLOGY, ENGINEERING AND MATH CLUSTER
## Engineering, Design, and Development Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Engineering Design (AP/College Level) | 1 | 9 | 10 | 11 | 12 |
| Civil Engineering and Architecture | 1 | | 10 | 11 | 12 |
| Principles of Engineering Honors (AP/College Level) (offered during even graduation years) | 1 | | 10 | 11 | 12 |
| Digital Electronics (AP/College Level) (offered during odd graduation years) | 1 | | 10 | 11 | 12 |
| Engineering Design & Development Honors (AP/College Level) | 1 | | | | 12 |

**Engineering, Design, and Development Pathway: Possible Course Sequences**

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| Introduction to Engineering Design (AP/College Level) OR Civil Engineering and Architecture | Digital Electronics (AP/College Level) OR Principles of Engineering Honors (AP/College Level) OR Introduction to Engineering Design (AP/College Level) OR Civil Engineering and Architecture | Digital Electronics (AP/College Level) OR Principles of Engineering Honors (AP/College Level) | Engineering Design & Development Honors (AP/College Level) |

**Introduction to Engineering Design (AP/College Level)** - 400H - 1 Credit **STEM**

This is the first course in the Project Lead the Way Engineering Pathway. Knowledge and skills attained in this course will be used in subsequent PLTW courses. In this course students will use the design process to complete a variety of problem-based activities. Students will become proficient in the use of Autodesk Inventor, which is a state of the art Computer Aided Design software package. Students will solve design problems as they develop, create, and analyze product models. Students will study the design concepts of form and function then use technology to translate conceptual design into reproducible products.
**Prerequisite: Student must earn a passing grade in Algebra 1 or be taking Algebra 1 concurrently.**

**Civil Engineering and Architecture** - 404HH - 1 Credit **STEM**

Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation.

**Principles of Engineering Honors (AP/College Level)** 401HH - 1 Credit **STEM**

**(Offered during even graduation years alternating with Digital Electronics)**

This course will continue to help students understand the field of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Students will learn about engineering, design process, communication and documentation, engineering systems, statics, **robotics**, materials and materials testing, thermodynamics, engineering for quality and reliability and dynamics. **Prerequisite: Student must earn a passing grade in Introduction to Engineering Design.**

**Digital Electronics (AP/College Level)** - 402HH - 1 Credit **STEM**

**(Offered during odd graduation years alternating with Principles of Engineering)**

How do robots make decisions? How does my calculator work? What does an electrical engineer do? These and many more questions are waiting for you to find the answers in the Digital Electronics™ course. Digital electronics is so embedded in your daily life, from listening to music to withdrawing money from a bank, that it has invaded many other areas of engineering. This course is designed to teach you about applied logic, which introduces you to the basics of electronics and digital systems – the building blocks to many products you use. This course is important for anyone exploring a career in engineering or engineering technology. The course includes topics on Basic Electron Theory, Electron Laws, Number Systems, Logic Systems, Boolean Algebra, Microprocessors, and a Student Self-Directed Project. Digital Electronics is weighted as a college level course. **Prerequisite: Student must earn a passing grade in Introduction to Engineering Design.**

**Engineering Design & Development Honors (AP/College Level)** - 403HH - 1 Credit **STEM**

This course allows the student to design a solution to a technical problem of their choosing. They have the chance to eliminate one of the ***"Don't you hate it when…" statements of the world.*** This is an engineering research course in which students will work in teams to research, design, test and construct a solution to an open-ended engineering problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous PLTW courses. The course also engages students in time management and teamwork skills, a valuable set of skills for students. **Prerequisite: Student must earn a passing grade in Introduction to Engineering Design.**

## CTE: TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER

## Facility and Mobile Maintenance Pathway

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Introduction to Transportation Technology (Automotive) | .5 | 9 | 10 | 11 | 12 |
| Transportation Technology (Automotive) | 1 | | 10 | 11 | 12 |
| Advanced Transportation Technology (Automotive) | 1 | | | 11 | 12 |

**Facility and Mobile Maintenance Pathway: Possible Course Sequence**

| Year 1 | Year 2 | Year 3 |
|---|---|---|
| Introduction to Transportation Technology (Automotive) | Transportation Technology (Automotive) | Advanced Transportation Technology (Automotive) |

**Introduction to Transportation Technology (Automotive)** - 431H - .5 Credit **STEM**
This course includes a study of the various ways in which society has used natural forces and different fuels to power machines. These fuels include water, wind, solar, electrical, and nuclear as well as fossil. Students will study the theory, maintenance, and repair of the small internal combustion engines and electric motors.

**Transportation Technology (Automotive)** - 432H - 1 Credit **STEM**
This course is designed to allow students to develop skills necessary for work in the Automotive and Transportation technology industry. An emphasis is placed on Powertrain, exhaust, lubrication and cooling systems. Problem-solving activities related to transportation systems (air, land, space and water) are also covered. **Prerequisite: Students must earn a passing grade in Introduction to Transportation Technology.**

**Advanced Transportation Technology (Automotive)** - 433H - 1 Credit **STEM**
This course introduces the student to troubleshooting automotive and other transportation systems. Other areas of study will include dismantling and assembling mechanical and electrical components of brake, suspension systems. The use of computerized diagnostic equipment will also be discussed. Activities will include development of alternative fuel vehicles such as solar electric and hybrid vehicles. **Prerequisite: Students must earn a passing grade in Transportation Technology.**

# ENGLISH/LANGUAGE ARTS and READING

| | COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| **CORE COURSES** | | | | | | |
| | English 1 (Required) | 1 | 9 | | | |
| | English 2 (Required) | 1 | | 10 | | |
| | English 3 | 1 | | | 11 | |
| | Literacy Workshop 1 and 2 ~~A, B,B1, B2, C, D, D1, E, F~~ (District Placement) | .5 - 1 | 9 | 10 | 11 | 12 |
| | AP English Language and Composition (dual enrollment may be offered) | 1 | | | 11 | (12) |
| | AP English Literature and Composition | 1 | | | (11) | 12 |
| | UCONN Seminar and Studio in Academic Writing and Multimodal Composition ECE ENGL 1007 (course will run subject to availability) | 1 | | | | 12 |
| | Poetry and Music | .5 | | | | 12 |
| | Public Speaking and Activism | .5 | | | | 12 |
| | Dystopias and Utopias in Literature and Life | .5 | | | | 12 |
| | Sports Literature/Sports Journalism | .5 | | | | 12 |
| | Visual Images | .5 | | | | 12 |
| **HUMANITIES ELECTIVES** | | | | | | |
| | Journalism 1 | 1 | 9 | 10 | 11 | 12 |
| | Journalism 2 | 1 | | 10 | 11 | 12 |
| | Journalism 3 | 1 | | | 11 | 12 |
| | Journalism 4 Honors | 1 | | | | 12 |
| | Creative Writing 1 | 1 | 9 | 10 | 11 | 12 |
| | Creating Writing 2 | 1 | | 10 | 11 | 12 |
| | Creative Writing 3 | 1 | | | 11 | 12 |
| | Creative Writing 4 Honors | 1 | | | | 12 |
| | Annual Writing and Editing 1, 2 | 1 | | 10 | 11 | 12 |
| | Annual Writing and Editing 3 Honors | 1 | | | | 12 |

| Elective That Does Not Count Towards the Humanities Elective Credit | | | | | | |
|---|---|---|---|---|---|---|
| | SAT Prep Math and English (Taken in Conjunction with Math) | .5 | 9 Spring Only | 10 | 11 | 12 Fall Only |

**English Language Arts: Possible Course Sequences/Options**

| | | | | |
|---|---|---|---|---|
| **Grade 9** | English 1<br>(Optional Honors Component) | | Elective Options<br>Creative Writing 1<br>Journalism 1 | |
| | | | | |
| **Grade 10** | English 2<br>Honors Component or College Prep | | Elective Options<br>Creative Writing 1,2<br>Journalism 1,2<br>Annual Writing & Editing | |
| | | | | |
| **Grade 11** | English 3<br>Honors or College Prep | AP and/or ECE<br>English Language<br>or AP English Literature | | <u>Elective Options:</u><br>Creative Writing 1,2,3<br>Journalism 1,2,3<br>Annual Writing and Editing 1,2 |
| | | | | |
| **Grade 12** | <u>Half Year Options:</u><br>(Students are required to take 2 if they do not take AP Literature or UCONN Senior Year)<br>Dystopias & Utopias In Literature & Life<br>Poetry & Music<br>Visual Images<br>Sports Literature/Sports Journalism<br>Public Speaking & Activism<br>***All Courses College Prep or Honors*** | | AP and/or ECE<br>English Language<br>or AP English Literature or<br>UCONN Seminar and Studio in Academic Writing<br>ENGL 1007 | <u>Elective Options:</u><br>Creative Writing 1,2,3,4 Honors<br>Journalism 1,2,3,4 Honors<br>Annual Writing and Editing 1,2, 3 Honors |
| **Additional Supports Grades 9,10,11,12** | Literacy Workshop 1 (This course may be repeated for credit.)<br>Literacy Workshop 2 (This course may be repeated for credit.)<br><br>SAT PREP: Math and English (This is not for Humanities Credit) | | | |

**<u>English 1</u> (Honors Option) (Required for all 9th graders)** - 200H/200HH - 1 Credit **Humanities**
This course is integrated with the study of literary genres using complex text, and an emphasis on argumentative and informational writing. Students are expected to become independent learners who develop their own interpretations and generalizations from concepts using close reading skills and questioning strategies. *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**English 2 College Prep (CP) (Required for all 10th graders)** - 210HCP - 1 Credit **Humanities**
In grade 10, students do extensive writing and reading with emphasis on Common Core Standards throughout the school year. Students are encouraged to evaluate literature and non-fiction text using critical theory, close reading skills, and questioning strategies. **Prerequisite: Student must earn a passing grade in English 1. College Prep or Honors level determined by data-driven teacher recommendation.**

**English 2 Honors** - 210HH - 1 Credit **Humanities**
Is a course available for those students who have passed English 1 and have a teacher recommendation. In addition to the curriculum listed under English 2 College Prep, this course stresses extensive reading and writing and includes additional literary selections.

**Grade 11 Choices and Requirements**
To fulfill the junior English requirement, students choose English 3 College Prep, English 3 Honors, English 3 AP: Language and Composition, or American Experience Honors.

**English 3 College Prep (CP)** - 220HCP - 1 Credit **Humanities**
Students in Grade 11 continue to develop and strengthen their writing and reading abilities. There is an emphasis on composition which focuses on the connection between complex text, text dependent questions, and writing. A review prior to the SAT/ACT is a functional part of the course of study. **Prerequisites: Student must earn a passing grade in English 2. College Prep or Honors level determined by data-driven teacher recommendation.**

**English 3 Honors** - 220HH - 1 Credit **Humanities**
Is a course available for those students who have passed English 2 and have a teacher recommendation. In addition to the curriculum listed under English 3 College Prep, this course stresses extensive reading and writing and includes additional literary selections.

**AP English Language & Composition** - 220HAP - 1 Credit **Humanities**
This full year course is designed to teach the skills needed to succeed in a college level English course. This course is an in-depth study of various genres of American literature through the lens of rhetoric and prepares students for the Advanced Placement examination in language. **Note: Students are encouraged to take the Advanced Placement tests offered by the College Board.** Additional dual-enrollment may be offered. **Prerequisite: Student must earn a passing grade in English 2.**

**Grade 12 Choices and Requirements**

**To fulfill the senior English requirement, students choose either English 4 AP Literature and Composition or two of the following courses: Poetry and Music, Public Speaking and Activism, Dystopias and Utopias in Literature and Life, Sports Literature/Sports Journalism, Visual Images.**

**AP English Literature & Composition** - 230HAP - 1 Credit **Humanities**
This full year course is designed to teach the skills needed to succeed in a college level English course and meets the requirements for senior English. This course prepares students for the Advanced Placement examination in literature. **Note: Students are encouraged to take the Advanced Placement tests offered by the College Board. Prerequisite: Student must earn a passing grade in English 3 or AP Language.**

**UCONN Seminar and Studio in Academic Writing and Multimodal Composition ECE ENGL 1007 (course will run subject to availability)**
209H - 1 Credit **Humanities**
This full year course is designed to teach the skills needed to succeed in a college level English course and meets the requirements for senior English. College composition through multiple forms of literacy, including

rhetorical, digital, and information literacies necessary for twenty-first-century contexts. The development of creatively intellectual inquiries through sustained engagement with texts, ideas, and problems. Emphasis on transfer of writing and rhetorical skills to academic and daily life. Students design a digital portfolio that curates creations and skills-based micro-credentials they earn in coursework. ECE grading will follow UCONN policies for the year. UConn credits are transferable to many colleges and universities. There is a fee per credit charged to students wishing to obtain UConn credit. **Prerequisite: Successful completion of three years of high school English is required. Suggested sequencing is English 3 H and/or AP Language and Composition prior to UCONN Seminar and Studio.**

**Poetry and Music (Honors Option)** - 231H/231HH - .5 Credit **Humanities**
Interested in writing lyrics or poems? Interested in analyzing music lyrics as well as poetry? This course will give students the opportunity to write and analyze poems and/or lyrics while focusing on the concepts of authorship and critical thought. Students will analyze how lyricists and poets act as authors to convey their ideas in a credible and creative manner. This course taken in conjunction with an additional half year course meets the requirements for senior English. **Prerequisite: Student must earn a passing grade in English 3 or AP Language; may be taken concurrently with English 3 or any AP English class per Department Head and/or Principal approval** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Public Speaking and Activism (Honors Option)** - 232H/232HH - .5 Credit **Humanities**
How can we effectively create speeches to convey our stories and/or perspectives in a convincing, thoughtful, and appealing manner? If you want to have an impact and "change the world," your speaking voice must be credible and engaging. Learning from master speakers and master writers allows the budding activist or public speaker to gain agreement, ignite change, and shift perspective or simply be heard and considered. This course taken in conjunction with an additional half year course meets the requirements for senior English. **Prerequisite: Student must earn a passing grade in English 3 or AP Language; may be taken concurrently with English 3 or any AP English class per Department Head and/or Principal approval** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Dystopias & Utopias in Literature & Life (Honors Option)** - 233H/233HH - .5 Credit **Humanities**
As children, we hear fairy tales designed to teach us lessons about the world, but then we learn that the fairy tales often started as gruesome horror stories. Is a utopian society possible or does every fairy tale ultimately become a dystopia? Could competing utopian societies exist in a culminating, multifaceted and equal society? This course will explore modern, young adult and classical dystopias and utopias to explore the concepts of authorship and critical thought. This course taken in conjunction with an additional half year course meets the requirements for senior English. **Prerequisite: Student must earn a passing grade in English 3 or AP Language; may be taken concurrently with English 3 or any AP English class per Department Head and/or Principal approval.** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Sports Literature/Sports Journalism (Honors Option)** - 234H/234HH - .5 Credit **Humanities**
What does it take to write a successful story about sports? How is sports literature similar to and different from biographies, autobiographies, game summaries, play by plays, and reporting of sports? What does authorship mean when an author is writing a play by play? How can we become critical consumers of information about sports? This course allows students to read, write, and produce short and extended texts of both fiction and non-fiction with sports as a main focus. This course taken in conjunction with an additional half year course meets the requirements for senior English. **Prerequisite: Student must earn a passing grade in English 3 or AP Language; may be taken concurrently with English 3 or any AP English class per Department Head and/or Principal approval.** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Visual Images (Honors Option)** - .235H/235HH - .5 Credit **Humanities**
This course combines the study of visual images and literature, culture, art, and music. Students will explore and make connections among issues related to world and American visual images and literature including: world and American contributions to filmmaking, music, and art, Shakespeare film adaptations, and research, narrative, informational/explanatory, argumentative and journal writing. This course taken in conjunction with an additional half year course meets the requirements for senior English. **Prerequisite: Student must earn a passing grade in English 3 or AP Language; may be taken concurrently with English 3 or any AP English class per Department Head and/or Principal approval.** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

## Humanities Electives

The following courses are enrichment courses and may be elected in grades 9, 10, 11 and/or 12 in addition to any required English course. **Courses will be offered based on student enrollment.**

**Journalism 1, 2 and 3** - 250H, 251H, 252H - 1 Credit **Humanities**
This course teaches the fundamentals of journalistic writing and makeup of a newspaper. Students in this course write for the high school newspaper. The course is also open to selected and highly recommended students interested in the following aspects of journalism: photography, art, and business. Students who are enrolled in Journalism 2 and 3 are responsible for the entire publication of the high school newspaper. This includes writing news stories, feature stories, editorials, sports stories, photojournalism, and advertising materials.

**Journalism 4 Honors** - 253HH - 1 Credit **Humanities**
This is an Honors course in journalism offered to students who have completed Journalism 1, 2, and 3. This course is available for those students who have demonstrated superior ability in journalism and the ability to work independently. **Prerequisite: Teacher recommendation**

**Creative Writing 1, 2, and 3** - 243H/244H/245H - 1 Credit **Humanities**
Offered to students in grades nine, ten, eleven, and twelve, who have an interest in writing, the class will stress the fundamentals of writing, especially the writing of short stories, informal essays, and verse. Students will have the opportunity to publish their writing and analyze and evaluate each other's writing. This course is conducted as a workshop. Students who are enrolled in Creative Writing 2 and 3 will serve as editors for the school literary magazine.

**Creative Writing 4 Honors** - 246HH - 1 Credit **Humanities**
This is an Honors course in writing offered to students who have completed Creative Writing 1, 2, and 3. This course is conducted as a workshop. Students will analyze and evaluate each other's writing. Students will serve as editors for the school literary magazine. **Prerequisite: Teacher recommendation**

**Annual Writing and Editing 1, 2** - 240H/241H - 1 Credit **Humanities**
This course is offered to students in grades ten, eleven, and twelve who have an interest in writing, photography, graphic design, and editing. This class will stress: writing in a journalistic style, correct grammar and usage, vocabulary development, use of computer software, composing and editing on a computer, meeting deadlines, financial management, and the publication of the yearbook.

**Annual Writing and Editing 3 Honors** - 242HH - 1 Credit **Humanities**
This is an Honors course which is offered to students in grades ten, eleven, and twelve who have an interest in writing, photography, graphic design, and editing. This class will stress: writing in a journalistic style, correct grammar and usage, vocabulary development, use of computer software, composing and editing on a computer, meeting deadlines, financial management, and the publication of the yearbook. **Prerequisite: Teacher recommendation.**

**Literacy Workshop 1- 248H- .5-1 Credits**
Students in all grades are placed into this intervention course as a result of scores on district and standardized measures and performance in school, and with approval of the department head. This course will focus on sequential evidence based foundational reading skills and code. Some courses will offer Read 180 and System 44 placement pending budget approval. This course qualifies for Humanities credit. Students will receive a grade of pass or fail rather than a letter grade for this course. Students can repeat the course for credit.

**Literacy Workshop 2- 249H- .5-1 Credits**
With a focus on Comp and Vocabulary, students in all grades are placed into this intervention course as a result of scores on district and standardized measures and performance in school, and with approval of the department head. This course will focus on sequential evidence based reading skills with a focus on word study and comprehension. Some courses will offer Read 180 and System 44 placement pending budget approval. This course qualifies for Humanities credit. Students will receive a grade of pass or fail rather than a letter grade for this course. Students can repeat the course for credit.

**Additional Elective**

**SAT College Prep S1/S2** 372H/373H - .5 Credit **General Elective Credit Only**
This course is intended to offer support and practice to help students increase their success on the SAT/ACT. Students will review topics covered in the SAT/ACT, practice SAT/ACT type problems, complete timed and untimed practice SAT/ACT tests and analyze the results of these practice tests. This class is for review; it is not intended as instruction in new topics in English or mathematics. Students take one quarter of English and one quarter of math. Students are encouraged to have a TI-84+ calculator. This course is offered as a general elective (not to fulfill Humanities or STEM requirements or electives). Students will receive a grade of pass or fail rather than a letter grade for this course. Course may be repeated for pass/fail credit.

# English for Speakers of Other Languages (ESOL)

This program is available to English Language Learners (ELLs), who have been identified as needing instruction and support to increase their English language proficiency and comprehension in their mainstream classes. Direct instruction in English, including vocabulary development, reading comprehension, and the writing process are offered, as well as Resource, individualized, and small group tutoring. Identified students are scheduled for support, based upon their level of English proficiency. The

ESOL staff, in consultation with the student's guidance counselor, administers a testing process to determine appropriate academic placement and support for each ELL entering the Stratford Public Schools.

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| ESOL English 1 | 1 | 9 | 10 | 11 | 12 |
| ESOL English 2 | 1 | 9 | 10 | 11 | 12 |
| ESOL English 3 | 1 | 9 | 10 | 11 | 12 |
| ESOL Reading | 1 | 9 | 10 | 11 | 12 |
| ESOL Resource | .5/1 | 9 | 10 | 11 | 12 |

# ESOL-Possible Course Sequence

**ESOL: Possible Course Sequences:**

| | | |
|---|---|---|
| ESOL English 1 | ESOL English 2 | ESOL English 3 |
| | | |
| ESOL Resource ½ year | | |
| | | |
| ESOL Resource, Full year | | |

**ESOL English 1** - 933 - 1 credit **ESOL**
This course is designed for the English Language Learner (ELL) in grades 9-12 with little or no English language proficiency. Students will gradually improve their listening, speaking, reading, spelling, and writing skills and expand their English vocabulary. Instruction will be designed to meet individual student needs. **Prerequisite: Less than one year of ESOL English instruction or teacher recommendation**.

**ESOL English 2** - 934 - 1 credit **ESOL**
This course will review, reinforce, and expand upon the language and cultural learning that took place during the first year course. Students will continue to improve their listening, speaking, reading, spelling, and writing skills and expand their English vocabulary. In addition to communication skills, the course will provide intensive language practice in reading and writing skills and focus upon the analysis of facts and details and reader response skills. **Prerequisite: This course is open to students in grades 9-12 with less than two years of ESOL English instruction or by teacher recommendation.**

**ESOL English 3** - 935 - 1 credit **ESOL**
This course will review, reinforce, and expand upon the language and cultural learning that took place during the second year course. Students will continue to expand their vocabulary and improve their listening, speaking, reading, spelling, and writing skills through readings and class discussions of selected American literary works and essay writing. Reading skills will also focus on analysis and interpretation as well as identification of facts and details. With English department approval, highly proficient ELLs may enroll in regular English department course offerings. **Prerequisites: At least two years of ESOL English instruction or teacher recommendation. With department and administrator approval and in very specific circumstances, students may repeat this course for credit towards their English graduation requirement.**

**ESOL Reading** - 929H - 1 credit
This course offers the English Language Learner (ELL) the opportunity to work with ESOL staff members to meet individual and small group needs in the area of reading. **Prerequisite**: **Permission of the teacher.**

**ESOL Resource (offered both semesters)** - 936H/927H - .5/1 credit
This course offers the English Language Learner (ELL) the opportunity to work with ESOL staff members to meet individual and small group needs. Areas of focus may include study, help, and/or guidance.
**Prerequisite**: **Permission of the teacher.**

# Health Education

| COURSE TITLE | | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| **REQUIRED COURSES** | | | | | | |
| | Health 1 | .5 | 9 | | | |
| | Health 2 | .5 | | | | 12 |
| **ELECTIVES** | | | | | | |
| | E.M.R. (BHS) | .5 | | 10 | 11 | 12 |
| | E.M.T. | 1 | | 10 | 11 | 12 |
| | Wellness in the 21st Century | .5 | | | 11 | 12 |

**Health: Possible Course Sequences**

| Possible Course Sequences: | Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|---|
| **Required Health** | Health 1 (Grade 9) | | | Health 2 (Grade 12) |
| ***Health Electives*** | | | ***Wellness in the 21st Century*** ***(Grade 11 & 12)*** | |
| | | ***E.M.R. (BHS) & E.M.T. (Off Site)*** ***(Grade 10, 11 & 12)*** | | |

**Health 1** - 914HC - .5 Credit **HEALTH and SAFETY**

Students will be required to pass for graduation a one semester, comprehensive health course. Focus will be on examination of lifestyles and making responsible decisions leading to the total wellness of the individual and family. Topics will include, but are not limited to, substance abuse, HIV/AIDS prevention education, family living, nutrition, consumer information, and stress and coping skills. Wellness integration with physical education will be linked with the following topics: nutrition and exercise, body composition, weight control, and exercise and stress management.

**Health 2** - 916HC .5 Credit **HEALTH and SAFETY**

Students will be required to pass for graduation an interdisciplinary course relating to current health issues and concerns. Focus will be on decision making and life skills as they apply to adolescent and adult health topics. Topics will include, but are not limited to, lifestyles, substance use/abuse, sexuality, family living, diseases, suicide prevention, death and dying, and other health concerns.

**E.M.R. (BHS)** - 860 - .5 Credit **HEALTH and SAFETY**

This elective course is designed to train students to be Emergency Medical Responder (first responders). Students will learn skills of first aid and C.P.R. as well as defibrillation. There will be training in lifting and moving, airway and oxygen adjuncts, medical and trauma emergencies, childbirth, infants, and children. **Prerequisite**: **Must be 16 years of age. The course will follow state and national guidelines. A small book/certification fee may be required**. **This course may be available for credit in the evening through the Stratford Volunteer EMS Association.**

**E.M.T. (Offsite-2 nights/week)** - 861H - 1 Credit **HEALTH and SAFETY**

This elective course is designed to train students to be emergency medical technicians (ambulance workers). Students will learn skills of advanced first-aid and CPR as well as defibrillation. The training includes: patient assessment, lifting and moving, airway and oxygen adjuncts, medical and trauma

emergencies, childbirth, infants, children and geriatrics and EMS operations. There are also clinical opportunities at Bridgeport and St. Vincent's hospitals and ambulance observation with Stratford EMS. **Prerequisite**: **This course is offered for a tuition fee in the evenings, offsite.**

**Wellness in the 21st Century** - 922H - .5 Credit **PE and WELLNESS**

Students may choose the "Wellness" course in their Junior or Senior year. This course will combine health and physical education by having two days a week in the classroom and three days a week in the gymnasium. The major topics to be covered are fitness, nutrition, and stress management. The course will provide instruction in knowledge, experiences and skills needed to promote wellness for individuals and society. Students will learn about and participate in a variety of activities, self-assessments and unique program planning. **Prerequisite: none.**

# MATHEMATICS

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| **CORE COURSES** | | | | | |
| Integrated Mathematics | 1 | 9 | | | |
| Math Workshop S1/S2* | .5 | 9 | 10 | 11 | |
| Algebra 1** | 1 | 9 | 10 | | |
| Geometry** | 1 | 9 | 10 | 11 | |
| Algebra 2 | 1 | 9 | 10 | 11 | 12 |
| Pre-Calculus | 1 | | 10 | 11 | 12 |
| Calculus Honors | 1 | | | 11 | 12 |
| AP Calculus AB | 1 | | | 11 | 12 |
| AP Calculus BC | 1 | | | 11 | 12 |
| Multivariable Calculus (AP/College Level) | 1 | | | | 12 |
| AP Statistics | 1 | | | 11 | 12 |
| College Algebra 1 | .5 | | | 11 | 12 |
| College Algebra 2 (AP/College Level) | .5 | | | 11 | 12 |
| Trigonometry | .5 | | | 11 | 12 |
| Statistics 1 | .5 | | | 11 | 12 |
| Statistics 2 | .5 | | | 11 | 12 |
| Visualizing Mathematics | .5 | | | 11 | 12 |
| **Elective That Does Not Count Towards the STEM Elective Credit** | | | | | |
| SAT College Prep Math and English (Taken in Conjunction with English) | .5 | 9 Spring Only | 10 | 11 | 12 Fall Only |

*Credits do not count toward mathematics graduation requirements, but do count as STEM electives.
**Starting with the graduating class of 2023, students who successfully complete advanced math classes in middle school may be granted one math credit for either Algebra 1 or Geometry on a case-by-case basis. Middle school credit will not be used to calculate high school GPA or class ranking.

**Mathematics: Possible Course Sequences**

| | Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|---|
| **Path 1** | Integrated Math | Algebra 1 | Geometry | Algebra 2 |
| | | | | |
| **Path 2** | Algebra 1 | Geometry | Algebra 2 | Senior Electives |

| | | | | |
|---|---|---|---|---|
| **Path 3** | Geometry | Algebra 2 | Pre-Calculus | Calculus H or AP Calculus AB and/or AP Statistics and/or Senior Electives |
| | | | | |
| **Path 4** | Algebra 2 | Pre-Calculus | Calculus H or AP Calculus AB and/or AP Statistics | AP Calculus BC and/or Multivariable Calculus and/or AP Statistics and/or Senior Electives |
| | | | | |
| **Additional Support** | Math Workshop | Math Workshop<br>SAT College Prep | Math Workshop<br>SAT College Prep | Math Workshop<br>SAT College Prep |

**Integrated Mathematics** - 360H - 1 Credit **STEM**
This course will focus on the acquisition of the basic math skills, introductory algebra concepts, and introductory geometry concepts. Real-world and technical applications will be extended and analyzed. Materials related to statistical concepts, data organization, interpretation, measurement, and modeling are utilized. Career awareness, applications, calculator, and computer activities are integrated where appropriate. **Prerequisites: Placement determined by benchmark scores, teacher recommendation, and student ability.**

**Math Workshop S1/S2**- 374HC/375HC - .5 Credit **STEM**
This class is designed to offer support for students to work on their algebraic skills needed in order be successful with the common core standards for mathematics. Students must be concurrently enrolled in Algebra 1 CP, Geometry CP, or Algebra 2 CP to be eligible for this course, based upon teacher referral and the approval of the math department head. Course may be repeated for STEM elective credit. Students will receive a grade of pass or fail rather than a letter grade for this course. **Prerequisites: Placement determined by benchmark scores, teacher recommendation, and student ability.**

**Algebra 1** - 300HCP/300HH - 1 Credit **STEM**
This course investigates the fundamental ideas of algebra upon which all future study of mathematics depends. Students develop an understanding of important concepts, skills, procedures and ways of thinking, reasoning, and modeling in algebra. Students investigate math concepts, utilizing interactive problems in motivating everyday situations and developing mathematical skills through investigations and projects. Students will study linear equations, inequalities, functions, graphs, systems of linear equations, and be introduced to exponential and quadratic functions. **Prerequisite: Students must earn a passing grade in Pre-Algebra or Integrated Mathematics. College Prep or Honors level determined by data-driven teacher recommendation.**

**Geometry** - 310HCP/310HH - 1 Credit **STEM**
This course includes plane geometry and components of solid, coordinate, and transformational geometry. It helps the student to develop spatial, inductive, and deductive reasoning skills. The course includes computer and calculator activities and real-life applications. Students investigate geometry concepts utilizing interactive problems in everyday situations and develop mathematical skills through investigations, projects, and modeling. **Prerequisites: Student must earn a passing grade in Algebra 1. College Prep or Honors level determined by data-driven teacher recommendation process.**

**Algebra 2** - 320HCP/320HH **-** 1 Credit **STEM**

This course builds upon concepts learned in Algebra I and expands to include work in functions and relations, polynomial functions, exponential functions, rational and irrational algebraic expressions, and an introduction to logarithmic functions. A heavy emphasis is placed upon non-routine problem solving, modeling, and math applications. Technology is integrated where appropriate. Students are encouraged to have a TI-84+ calculator. **Prerequisite: Students must earn a passing grade in Algebra 1. College Prep or Honors level determined by data-driven teacher recommendation process.**

**Pre-Calculus** - 330HCP/330HH - 1 Credit **STEM**

This course builds upon the functions explored in Algebra 2 and the study of various functions will serve as the theme of this course. In particular, trigonometric functions, inverse functions, rational functions, exponential and logarithmic functions, and their applications will be examined. Students will learn how to solve equations, develop models, and work on developing non-routine problems. Additionally, students will be introduced to calculating limits. Use of a graphing calculator is required for this course. **Prerequisite: Students must earn passing grades in Geometry and Algebra 2. College Prep or Honors level determined by data-driven teacher recommendation process.**

**Calculus Honors** - 340HH - 1 Credit **STEM**

This course is designed to give students exposure to the key objectives of a Calculus course. The course begins with study of limits. The derivative is introduced through the study of the tangent line problem and the limit definition of the derivative is developed. Through the use of the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling, the course becomes a cohesive course. Use of a graphing calculator is required for this course. **Prerequisite: Students must earn a passing grade in Pre - Calculus.**

**AP Calculus AB** - 341HAP (SHS)/341HAPE (BHS) - 1 Credit **STEM**

This course is designed to develop the students' understanding of the concepts of calculus and provide experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The connections among these representations are also important. Through the use of the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling, the course becomes a cohesive course. Students are **encouraged** to take the Advanced Placement Examination offered by the College Board. May include an opportunity for dual enrollment. **Use of graphing calculator required. Prerequisites: Student must earn a passing grade in Pre-Calculus.**

**AP Calculus BC** - 342HAP - 1 Credit **STEM**

This course is an extension of Calculus AB. Common topics require a similar depth of understanding. Both courses are challenging and demanding. Students are **encouraged** to take the Advanced Placement Examination offered by the College Board. May include an opportunity for dual enrollment. **Use of graphing calculator required. Prerequisites: Student must earn a passing grade in Pre-Calculus Honors or AP Calculus AB or receive Department Head approval.**

**Multivariable Calculus (AP/College Level)** - 343HAP - 1 Credit **STEM**

This course is an equivalent to a 2nd year college calculus class. Topics include use of vector dot- and cross-products, functions with more than one variable, and parametric surfaces. **Use of graphing calculator required. Prerequisites: Student must earn a passing grade in AP Calculus BC.**

**AP Statistics** - 350HAP/350HAPE - 1 Credit **STEM**

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. AP Statistics is divided into four major themes: exploratory analysis, planning a study, probability, and statistical analysis. Students need to have a graphing

calculator and computer technology as tools and are **encouraged** to take the Advanced Placement Examination offered by the College Board. May include an opportunity for dual enrollment. **Use of graphing calculator required. Prerequisites: Student must earn a passing grade in Algebra 2.**

**College Algebra 1 H** - 353HH - .5 Credit **STEM**
This course is designed to build upon a student's algebraic understanding before moving on to an undergraduate program. It will focus on problem solving, real-world applications, modeling, and the appropriate use of technology. Course content includes a thorough look at function analysis, creating piece - wise functions, and utilizing regression to develop linear, quadratic, and exponential models. **Prerequisite: Students must earn passing grades in Geometry and Algebra 2.**

**College Algebra 2 H (AP/College Level)** - 355HH - .5 Credit **STEM**
This course is designed to build upon the foundation of College Algebra 1 H. Course content includes a thorough exploration of polynomial, exponential and logarithmic functions. Additionally, an introduction to matrices will be explored. Students in this course are eligible to earn college credit through Southern Connecticut State University by fulfilling university requirements. May include an opportunity for dual enrollment. **Prerequisite: Students must earn a passing grade in College Algebra 1 H.**

**Trigonometry** - 354H - .5 Credit **STEM**
This half-year course is a study of trigonometry from both a theoretical approach and the application of concepts in real life problems. Students will analyze, apply, and illustrate the properties of the unit circle, determine trigonometric values, calculate the transformations of trigonometric functions and graph trigonometric functions on the coordinate plane. Students will utilize technology to model cyclical real world phenomena and be able to make predictions. This course is designed for students who need to reinforce their problem solving and critical thinking skills. **Prerequisite: Students must earn a passing grade in Algebra 2 and Geometry.**

**Statistics 1** - 351H - .5 Credit **STEM**
This course provides the student with statistical methods of collecting, organizing, representing, and analyzing data. Principles of probability such as the counting principle, combinations and permutations, and tree diagrams will be explored. **Prerequisite: Student must earn passing grades in Geometry and Algebra 2.**

**Statistics 2** - 352H - .5 Credit **STEM**
This course builds upon the work completed in Statistics 1. Students will focus on the application of statistical methods to make predictions about populations in a real world context. **Prerequisite: Student must earn a passing grade in Statistics 1.**

**Visualizing Mathematics CP** - 375H - .5 Credit **STEM**
This course helps to build the foundational material to use mathematics as a tool to model, understand, and interpret the world around us. This is done through studying functions, their properties, and applications. Students interested in the natural sciences, computer sciences, psychology, sociology, or similar will genuinely benefit from this course, applying the skills learned to their discipline to analyze and interpret their subject material. Students will be presented with not only new ideas, but also new applications of an old subject. Real-life data, exercise sets, and regular assessments help to motivate and reinforce the content in this course, leading to learning and mastery. **Prerequisite: Student must earn passing grades in Geometry and Algebra 2.**

**SAT College Prep S1/S2** - 372H/373H - .5 Credit **General Elective Credit Only**
This course is intended to offer support and practice to help students increase their success on the SAT/ACT. Students will review topics covered in the SAT/ACT, practice SAT/ACT type problems, complete timed and

untimed practice SAT/ACT tests and analyze the results of these practice tests. This class is for review; it is not intended as instruction in new topics in English or mathematics. Students take one quarter of English and one quarter of math. Students are encouraged to have a TI-84+ calculator. Students will receive a grade of pass or fail rather than a letter grade for this course.

# MUSIC

| COURSE TITLE | | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| **FULL YEAR COURSES** | | | | | | |
| | Concert Choir* | 1 | 9 | 10 | 11 | 12 |
| | Select Choir* | 1 | 9 | 10 | 11 | 12 |
| | Concert Band* | 1 | 9 | 10 | 11 | 12 |
| | String Orchestra* | 1 | 9 | 10 | 11 | 12 |
| | Wind Ensemble Honors* | 1 | 9 | 10 | 11 | 12 |
| | Music Theory (AP/College Level) | 1 | | 10 | 11 | 12 |
| | AP Music Theory | 1 | | | 11 | 12 |
| | Sectional Band (Percussion/Guitar, Keyboards, Drums)* | 1 | 9 | 10 | 11 | 12 |
| | Theatre Arts and Vocal Production | 1 | 9 | 10 | 11 | 12 |
| | Advanced Theatre Arts and Vocal Production | 1 | | 10 | 11 | 12 |
| **SEMESTER COURSES** | | | | | | |
| | Music Technology | .5 | | 10 | 11 | 12 |
| | Introduction to the Guitar | .5 | 9 | 10 | 11 | 12 |
| | Introduction to the Piano | .5 | 9 | 10 | 11 | 12 |

* Course can be repeated for credit

**All music courses meet the Arts graduation requirement.**

**Music: Possible Course Sequences**

| **Year 1 – 4 Stand Alone Courses** | **Year 1, 2, 3 or 4 Full Year Courses** | |
|---|---|---|
| Intro to Piano (Semester) | Band (Full Year) | Wind Ensemble Honors (Full Year) |
| Music Technology (Semester- 10th grade or above) | Sectional Band (Full Year) | |
| Theatre Arts & Vocal Production 1 (Full Year) | Chorus (Full Year) | Select Choir (Full Year) |
| Theatre Arts & Vocal Production 2 (Full Year) ***(Prerequisite: Theatre Arts & Vocal Production 1)*** | Music Theory (ECE) (Full Year) | AP Music Theory (ECE) (Full Year) |
| | String Orchestra (Full Year) | |

**Concert Choir** - 603H - 1 Credit **Humanities**
This course is an elective for grades 9-12 students and includes rehearsal and performance of choral literature of all styles and periods. Fundamentals of rhythm and tonality, and music reading are emphasized in this course. Participation in performances is required. **Prerequisite: None**

**Select Choir** - 604H - 1 Credit **Humanities**
This course is an elective for grades 9-12 advanced students and includes rehearsal and performance of choral literature of all styles and periods. A successful audition is required to participate in this course. Participation in performances is required. **Prerequisite: Audition**

**Concert Band** - 608H - 1 Credit **Humanities**
Students from grades 9-12 may elect concert band if they have previous experience on a band instrument. Emphasis will be placed on the development of aural and technical skills, by rehearsing/performing literature from a variety of musical styles. Activities are required in addition to the regular allotted school time. Each band member is expected to participate at home football games, concerts, graduation, the Memorial Day Parade, and other civic activities as scheduled. **Prerequisite: Prior experience playing a band instrument**. **(Note: There is a $15.00 instrument usage fee for this class for students who use the school's instruments, including percussion)**

**String Orchestra** - 609H - 1 Credit **Humanities**
This course is an elective for grades 9-12 students. Students who elect strings will study violin, viola, cello, or double bass in a class and ensemble setting. Performance and participation are important elements in a string ensemble. **Prerequisite: Prior experience playing a string instrument is required**. **(Note: There is a $15.00 instrument usage fee for this class for students who use the school's instruments.)**

**Wind Ensemble Honors** - 610HH - 1 Credit **Humanities**
This Honors-level course is offered by audition to advanced instrumentalists. It is designed to develop advanced aural and instrumental skills, and to experience challenging musical literature. Members will be expected to fulfill the same requirements as Concert Band. **Prerequisite: Audition (Note: There is a $15.00 instrument usage fee for this class for students who use the school's instruments.)**

**Music Theory** (AP/College Level)- 600HHE - 1 Credit **Humanities**
This course is a study of the melodic and harmonic structure of music. It is designed for the student with formal music training and will focus on advanced techniques in the use of computers, keyboards, and traditional methods. Those with an interest in the music industry and/or in a career in music should consider this course. Through the use of computers, keyboards, and traditional methods, students will learn to read, compose, and perform arrangements and original music. It is open to students in grades 10-12. When UCONN Early College Experience (ECE) is offered, students accepted into the ECE course may earn 3 college credits for Fundamentals of Music I from the University of Connecticut if they earn a UConn grade of C or better. The students are required to take an exit exam for this course that is provided by the UConn Music Department. **Prerequisite: A basic knowledge of music concepts and the ability to read music is required.**

**AP Music Theory/AP Music Theory ECE** - 600HAP/600HAPE - 1 Credit **Humanities**
This course is a study of the melodic and harmonic structure of music. It is designed for the serious music student and will focus on advanced techniques in musicianship. Participants are encouraged to take the AP exam offered by the College Board. Students accepted into the UConn Early College Experience Program (ECE) course earn 3 college credits for Fundamentals of Music I and an additional 3 credits for Introduction to Ear Training from the University of Connecticut if they earn a UConn grade of C or better. The students are required to take an exit exam for each course that is provided by the UConn Music Department. Note: Students who have already taken Music Theory and earned UConn credit for Fundamentals of Music I will only have the opportunity to earn credit for Introduction to Ear Training. **Prerequisite**: S**tudent must earn a passing grade in three years of music electives including music theory.**

**Sectional Band (Percussion/Rhythm Section)** - 605H - 1 Credit **Humanities**
This course is offered to students who study percussion (drums), mallet percussion (xylophone), guitar, and keyboard. Students will study all aspects of percussion and develop ensemble skills and technique through the preparation and performance of Marching Band/Concert Band/Percussion Ensemble literature. **Prerequisite: Prior experience playing a band instrument is required**.

**Theatre Arts and Vocal Production** - 611H - 1 Credit **Humanities**
This is a course for learning stage and performance techniques. Overall production aspects such as performing, costuming, lighting, set design, make-up, directing, and stage movement and vocal technique or production will be considered. **Prerequisite: None.**

**Advanced Theatre Arts and Vocal Production** - 612H - 1 Credit **Humanities**
This course is a continuation of the work in Theatre Arts and Vocal Production and can only be taken by students completing Theatre Arts and Vocal Production successfully. The course will be divided into four areas: drama workshop, writing workshop, reading workshop, and production workshop. Emphasis will be on performance. May be repeated for credit. **Prerequisite**: **A passing grade in Theatre Arts and Vocal Production.**

**Music Technology** - 622H - .5 Credit **Humanities**
Students in 10th grade or above will explore the fast growing field of music technology using state of the art equipment. Participants will learn to write and arrange music using computers and MIDI. They will utilize the Internet and a variety of music programs to explore popular and other styles of music. Careers in music will also be explored. **Prerequisite: None.**

**Introduction to Guitar** - 602H - .5 Credit **Humanities**
Students will learn to play and read music using acoustic guitars in a group setting. Each participant will have access to a guitar for school use only. **Prerequisite: None.**

**Introduction to Piano** - 601H - .5 Credit **Humanities**
Students will learn to play and read music using electronic keyboards in a group setting. Each participant will have access to a keyboard. **Prerequisite: None**.

# PHYSICAL EDUCATION

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Physical Education 1 | .5 | 9 | (10) | (11) | (12) |
| Physical Education 2 | .5 | | 10 | (11) | (12) |
| Project Adventure (Option for PE 2 Requirement) | .5 | | 10 | | |
| Elective-Physical Education 3 (as space permits) | .5 | | | 11 | 12 |

*Students will be required to pass 2 semesters of physical education for high school graduation. All students must take physical education each year until the requirement is fulfilled.*

**Physical Education: Possible Course Sequences**

| | Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|---|
| **PHYSICAL EDUCATION** | Physical Education 1 (Grade 9) | Physical Education 2 (Grade 10) | | |
| | | Project Adventure (Alternative Option for Grade 10 Physical Education) | | |
| ***Physical Education Electives*** | | | ***Physical Education 3 (Elective~~)~~*** | ***Physical Education 3 (Elective)*** |

**Physical Education 1** - 923HC - .5 Credit **PE and WELLNESS**
Students will be encouraged to develop an optimum level of health-related physical fitness, acquire knowledge of fitness concepts, and understand the significance of lifestyle upon one's health and fitness. The course will also provide an overview of physical education activities available in the instructional program.

**Physical Education 2** - 924HC - .5 Credit **PE and WELLNESS**
Students are offered a wide range of individual, dual, and team activities in a coeducational program that emphasizes lifetime sports and health related fitness. Selection of activities by students will provide opportunities to further refine specific sports skills. **Prerequisite: A passing grade in Physical Education 1.**

**Project Adventure/PE** - 926H - .5 Credit **PE and WELLNESS**
Project Adventure is an adventure-based program available to students as an alternative for the physical education experience. The program is an indoor-outdoor experience that uses a variety of challenges and rope courses in a non-competitive and problem-solving atmosphere. Credit is awarded at .5 Credits per semester. **Note: This course is an alternate option to earn Physical Education 2 credit.**

**Physical Education Elective 3** (as space permits) - 925H .5 Credit **PE and WELLNESS**
Students are offered a wide range of individual, dual, and team activities in a coeducational program that emphasizes lifetime sports and health related fitness. Selection of activities by students will provide opportunities to further refine specific sports skills. **Prerequisite: A passing grade in Physical Education 2 or Project Adventure.**

# SCIENCE

Starting with the 2019-2020 school year, the Stratford science department implemented a new course sequence for all freshmen in order to meet the requirements of the Next Generation Science Standards. All courses in this sequence will follow a phenomena-driven, inquiry-based model and will focus on three-dimensional learning across the domains of disciplinary core ideas, crosscutting concepts and science/engineering practices.

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| Earth and Energy Systems | .5 | 9 | 10 | | |
| Human Biology | .5 | 9 | 10 | | |
| Environmental Biology | .5 | 9 | 10 | 11 | |
| Chemistry 1* | .5 | | 10 | 11 | |
| Chemistry 2* | .5 | | 10 | 11 | |
| Physical Science | .5 | | | 11 | |
| Physics* | 1 | | | 11 | 12 |
| Forensic Science | .5 | | | 11 | 12 |
| Biodiversity | .5 | | | 11 | 12 |
| Physiology | 1 | | | 11 | 12 |
| Biotechnology | .5 | | | 11 | 12 |
| Neuroscience | .5 | | | 11 | 12 |
| AP/UCONN ECE Biology* | 2.0 | | | 11 | 12 |
| AP/UCONN ECE Chemistry* | 2.0 | | | 11 | 12 |
| AP/UCONN ECE Physics 1* | 2.0 | | | 11 | 12 |
| AP/UCONN ECE Physics C: Mechanics* | 2.0 | | | 11 | 12 |
| AP/UCONN ECE Physics 2* | 2.0 | | | | 12 |

*If a student is placed on Homebound Instruction during this course, laboratory credit may be lost depending on the amount of time spent out of school because lab components to the course would not be able to be completed.

**Science Possible Course Sequences**

| | Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|---|
| Traditional | Earth and Energy Systems **AND** Human Biology | Environmental Biology **AND** Chemistry 1 | Physics **OR** Physical Science **AND** Chemistry 2 | Electives: Forensics **AND/OR** Biodiversity **AND/OR** Anatomy & Physiology |
| | | | | |
| STEM - Life Science Focus | Earth and Energy Systems **AND** Human Biology | Environmental Biology **AND** Chemistry 1 | Physical Science **AND** Chemistry 2 | AP Biology |
| | | | | |
| STEM - Chemistry Focus | | | AP Chemistry | AP Physics 1 **OR** Electives |

| | | | | |
|---|---|---|---|---|
| STEM - Physics Focus<br>*Accelerated Math* | Earth and Energy Systems*<br>**AND**<br>Human Biology*<br>**AND**<br>Environmental Biology* | Chemistry 1<br>**AND**<br>Chemistry 2H | AP Physics 1 | AP Physics 2 |
| STEM - Engineering Focus<br>*Accelerated Math* | | | AP Chemistry | AP Physics C: Mechanics (With Calculus) |
| STEM - Engineering Focus<br>*2x Accelerated Math* | | | AP Physics C: Mechanics (With Calculus) | AP Physics 2 **OR** AP Chemistry |

*One of these courses can be moved to Year 2 to accommodate scheduling conflicts.

**Earth & Energy Systems** - 011HCP/011HH - .5 Credit **STEM**
This semester course is organized around the Next Generation Science Standards with a primary focus in the domain of physical science and supporting work in the domain of earth science. Topics include: forces and interactions, energy transfer, and weather. Coursework will be supported by hands-on laboratory experiences. **College Prep or Honors level determined by data-driven teacher recommendation process.**

**Human Biology** - 012HCP/012HH - .5 Credit **STEM**
This semester course is organized around the Next Generation Science Standards with a primary focus in the domain of life science. Topics include: DNA, genetics, and body systems. Coursework will be supported by hands-on laboratory experiences. **College Prep or Honors level determined by data-driven teacher recommendation process.**

**Environmental Biology** - 042HCP/042HH - .5 Credit **STEM**
This semester course is organized around the Next Generation Science Standards with a primary focus in the domain of life science. Topics include: energy flow, carbon cycling, and photosynthesis. Coursework will be supported by hands-on laboratory experiences. **College Prep or Honors level determined by a data-driven teacher recommendation process.**

**Chemistry 1** - 031HCP/031HH - .5 Credit **STEM**
This semester course is organized around the Next Generation Science Standards with a primary focus in the domain of physical science. Topics include: kinetic molecular theory, particle interactions, and chemical reactions. Coursework will be supported by hands-on laboratory experiences. **College Prep or Honors level determined by a data-driven teacher recommendation process. Honors level must be concurrently enrolled in Algebra 2.**

**Chemistry 2** - 032HCP/032HH - .5 Credit **STEM**
This semester course builds on the work of Chemistry 1 and is intended for students who plan to enroll in AP Chemistry. Topics include: phase changes, oxidation, acids, and bases. Coursework will be supported by hands-on laboratory experiences. **Prerequisites: Student must earn a passing grade in Chemistry 1. College Prep or Honors level determined by a data-driven teacher recommendation process. Honors level must be concurrently enrolled in Algebra 2.**

**Physical Science** - 052HCP/052H - .5 Credit **STEM**
This semester course is organized around the Next Generation Science Standards with a primary focus in the domain of physical science. Topics include: Newton's laws and energy transfer. Coursework will be supported by hands-on laboratory experiences. **College Prep or Honors level determined by a data-driven teacher recommendation process.**

**Physics** - 040HCP/040HH - 1 Credit **STEM**

This physics course covers all of the recognized topics of traditional physics such as mechanics, heat, light, sound, electricity, and magnetism. The Honors level focuses on the areas of classical physics and includes the study of kinematics, forces, momentum, and energy during the first semester. During the second semester, students will study waves, fluid mechanics and optics. Physics is recommended as preparation for college, and should be taken by all students who plan to pursue a career in science or a science related field. It is considered a laboratory course by colleges and universities. **Prerequisites: Student must earn passing grades in Chemistry and Algebra 2. College Prep or Honors level determined by data-driven teacher recommendation process.**

**Forensic Science** - 064H - .5 Credit **STEM**

This course offers a look into the world of forensic science focusing on the techniques and materials used in analyzing physical evidence. Topics discussed include basic criminalistics, fingerprinting, DNA fingerprinting, blood stain patterns, use of hair and fibers, and document analysis. The offering of this course is contingent upon sufficient enrollment and funding. **Prerequisites: Student must earn a passing grade in Human Biology. Open to juniors and seniors only.**

**Biodiversity -** 065H - .5 Credit **STEM**

Biodiversity is an elective science course open to all students, with a focus on living organisms in the biosphere. The course is a one semester course designed to provide a hands-on classroom lab and field study experience. The two main areas of study will include a Credit exploring the plant kingdom and a Credit exploring the animal kingdom with a focus on vertebrate biology. Students will perform a variety of inquiry based experiments including interdisciplinary school to career activities linked to fine art, technology education, and math. The course is aligned with components of the Connecticut Science Frameworks for enrichment in biology and covers all of the grade 9-10 content standards for scientific inquiry, literacy, and numeracy. The offering of this course is contingent upon sufficient enrollment and funding. **Prerequisites: Student must earn a passing grade in Environmental Biology. Open to juniors and seniors only.**

**Physiology** - 061H - 1 Credit **STEM**

This course offers the structure and function of all major body systems, nutrition, and personal health. This course is recommended for students interested in health related careers or as background for students interested in the structure and functioning of their own bodies. This course includes a dissection experience. **Prerequisites: Student must earn a passing grade in a lab science class or Department Head approval. College Prep or Honors level determined by data-driven teacher recommendation process.**

**Biotechnology** - 021H .5 Credit **STEM**

This course focuses on the advances in biotechnology, how they will affect humanity, and ethical issues that arise from them. Topics include cellular and biomolecular processes, and current and historical applications of biotechnology. **Prerequisite: This course is open to juniors and seniors only.**

**Neuroscience** - 013H .5 Credit **STEM**

This course aims to explain how we perceive and interact with the world around us. This includes how we move, think, feel and learn. This course is intended to introduce students to the study of neuroscience. Topics will include the anatomy and physiology of the brain, neuron functioning, neuropharmacology, learning and behavior, as well as disorders of the nervous system. Students will also be introduced to common practices used in neuroscience research such as neuroimaging and analyzing electrophysiological data. **Prerequisite: This course is open to juniors and seniors only.**

**Advanced Placement (AP) Biology UCONN/ECE BIOL 1107/BIOL 1108** **STEM**
020HAP-SHS/020HAPE-BHS - 2.0 Credit
This course is designed to be the equivalent of a two–semester college introductory biology course usually taken by biology majors during their first year. Students that enroll in this course have the opportunity to earn, through an Advanced Placement Exam, college credits while in high school. The major areas covered by the course are molecular and cell biology, animal anatomy and physiology, ecology, and evolution, genetics, and plant biology. Major themes covered include science as a process, evolution, energy transfer, continuity and change, structure and function, regulation, interdependence in nature and science, technology, and society. The laboratory experience is an important component of the course. Appropriate labs will be assigned that will provide students with the opportunity to learn a variety of skills, facts, principles, and concepts of introductory level biology covered in lectures, reading, and discussions. May include an opportunity for dual enrollment. **Note:** All students are expected to take the Advanced Placement Examination offered by the College Board. **Prerequisites: Student must earn passing grades in Human Biology, Environmental Biology, Chemistry 1, and Chemistry 2H. College Prep, Honors, or AP level determined by data-driven teacher recommendation.**

**Advanced Placement(AP) Chemistry (UCONN/ECE CHEM 1127Q/CHEM 1128Q)**-030HAP- 2.0 Credit **STEM**
This course presents an in-depth study of chemistry comparable to that offered in a college inorganic chemistry course. Topics will include thermodynamics, various equilibria, electrochemistry, and precipitation reactions. Students should have a strong mathematical background to ensure successful preparation for the Advanced Placement Chemistry Exam. May include an opportunity for dual enrollment. **Note:** All students are encouraged to take the AP Examination. **Prerequisites: Student must earn passing grades in Chemistry 2H and Algebra 2. College Prep, Honors, or AP level determined by data-driven teacher recommendation.**

**Advanced Placement Physics 1/UCONN PHYS 1201Q** - 040HAPE1 - 2.0 Credit **STEM**
AP Physics 1 is the equivalent of a first-semester college course in algebra-based physics, designed to be taught over a full academic year. The course covers kinematics; Newton's Laws of Motion (including gravitation); momentum; work, energy, and power; circular motion and rotation (including conservation of angular momentum); oscillations; mechanical waves; and fluids and thermal physics. The objective of the course is to have students develop the skills and intuition to be able to solve college-level physics problems while applying their deep conceptual understanding of the content through inquiry labs. As the course progresses, multi-concept problems and labs are the norm. May include an opportunity for dual enrollment. **Note:** When UCONN Physics 1201A is offered, all students are required to take an exit exam that is provided by the UConn Physics Department. Students are encouraged to take the AP examination if UCONN credit is not offered/chosen. **Prerequisites: Student must earn a passing grade in Chemistry 2H and Algebra 2. Co-requisite: Pre-Calculus. College Prep, Honors, or AP level determined by data-driven teacher recommendation.**

**Advanced Placement Physics C/UCONN PHYS 1401Q** - 043HAPE - 2.0 Credit **STEM**
AP Physics C: Mechanics is the equivalent of a first-semester college course in calculus-based physics, including a laboratory component, designed to be taught over a full academic year. The course covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. The objective of the course is to have students develop the skills and intuition to be able to solve college-level physics problems, from a calculus-based perspective, while applying their deep conceptual understanding of the content through inquiry labs. As the course progresses, multi-concept problems and labs are the norm. May include an opportunity for dual enrollment. **Note:** When UCONN Physics 1201A is offered, all students are required to take an exit exam that is provided by the UConn Physics Department. Students are encouraged to take the AP examination if UCONN credit is not offered/chosen.**Prerequisites: Student must earn a passing grade in Chemistry 2H. Co-requisite: Calculus. College Prep, Honors, or AP level determined by data-driven teacher recommendation.**

**Advanced Placement Physics 2/UCONN PHYS 1202Q** - 040HAP2/040HAPE2 - 2.0 Credit **STEM**
AP Physics 2 is the equivalent of a second-semester college course in algebra/trigonometry-based physics, designed to be taught over a full academic year. The course covers fluid mechanics; heat and temperature; kinetic theory and thermodynamics; electrostatics (including fields and potentials); conductors and capacitors; electric circuits (including RC circuits); magnetic fields and electromagnetism (including Faraday's Law and Lenz's Law); physical and geometric optics; atomic physics and quantum effects; and nuclear physics. The objective of the course is to have students develop the skills and intuition to be able to solve college-level physics problems while applying their deep conceptual understanding of the content through inquiry labs. As the course progresses, multi-concept problems and labs are the norm. May include an opportunity for dual enrollment. **Note:** When UCONN Physics 1201A is offered, all students are required to take an exit exam that is provided by the UConn Physics Department. Students are encouraged to take the AP examination if UCONN credit is not offered/chosen. **Prerequisites: Student must earn a passing grade in AP Physics 1/UConn PHYS 1201Q or AP Physics Mechanics C/UConn PHYS 1401Q. Note: Students who have not earned credit for UCONN PHYS 1201Q or UCONN PHYS 1401Q cannot enroll in UCONN PHYS 1202Q through the ECE program.**

# SOCIAL STUDIES

| | COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|---|
| **CORE COURSES** | | | | | | |
| | Modern World History | 1 | 9 | | | |
| | United States History | 1 | | 10 | | |
| | AP/UCONN-ECE United States History | 1 | | 10 | | |
| | Civics | .5 | | | 11 | |
| | AP US Government and Politics* | 1 | | | 11 | 12 |
| | African American/Black and Puerto Rican/Latino Studies** | 1 | | | 11 | 12 |
| | Conversations on Race and Ethnicity | .5 | | | 11 | 12 |
| | Economics | .5 | | | 11 | 12 |
| | International Relations | .5 | | | 11 | 12 |
| | Psychology | .5 | | | 11 | 12 |
| | Sociology | .5 | | | 11 | 12 |
| | AP Psychology** | 1 | | 10 | 11 | 12 |
| **HUMANITIES ELECTIVES** | | | | | | |
| | African American/Black and Puerto Rican/Latino Studies** | 1 | | | 11 | 12 |
| | Conversations on Race | .5 | | | 11 | 12 |
| | Economics | .5 | | | 11 | 12 |
| | International Relations | .5 | | | 11 | 12 |
| | Psychology | .5 | | | 11 | 12 |
| | Sociology | .5 | | | 11 | 12 |
| | AP Psychology*** | 1 | | 10 | 11 | 12 |
| | AP US Government and Politics* | 1 | | | 11 | 12 |

*This course fulfills the Civics requirement as well as the requirement for an additional half year course.
**Students must still take Civics for half a year.

**Social Studies: Possible Course Sequences/Choices**

<table>
<tr><td>Grade 9</td><td colspan="3">Modern World History<br>Honors<br>College Prep</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>Grade 10</td><td>AP and/or ECE<br>US History</td><td>US History Survey<br>Honors<br>College Prep</td><td>Elective<br>AP Psychology</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>Grade 11</td><td>Required<br>Civics<br>(Half Year Course)<br>Offered Fall and Spring<br>Optional Honors<br>or<br>AP US Government & Politics<br>(Fulfills both the Civics and Additional Half Year Requirement)</td><td>Required<br>Half Year Options<br>(Choose 1)<br>Economics<br>International Relations<br>Psychology (Semester)<br>or<br>AP Psychology (Year Long)<br>Sociology</td><td><u>Humanities Electives</u><br><br>African American/Black and Puerto Rican/Latino Studies (Students must still take Civics for half a year)<br>(Optional Honors)<br><br>Conversations On Race and Ethnicity<br>(Will satisfy a semester humanities elective)<br><br>Psychology (Semester)<br><br>AP Psychology<br>(Fulfills Non Civics Half or Grade 11 Social Studies<br>Sociology<br>Economics</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>Grade 12<br>Electives</td><td colspan="3">AP Government<br>African American/Black and Puerto Rican/Latino Studies<br>(Students must still take Civics for half a year)<br><br>Conversations On Race and Ethnicity<br>(Will satisfy a semester humanities elective)<br><br>Economics<br><br>International Relations<br><br>Psychology (Semester or AP)<br><br>Sociology</td></tr>
</table>

**<u>Grade 9 Requirement</u>**

**<u>Modern World History College Prep (CP)</u>** - 100HCP - 1 Credit **Humanities**

This course begins with the changes in thought that emerged from the late middle ages and moves to the present day. The course asks students to look at connections between the past and present as well as possibilities for the future. Students will use expository and argumentative writing skills, emphasized in both English and social studies classes, in writing about topics relevant to the content of World Studies. 21st Century and Common Core Standards are also reinforced. **Prerequisite: Student must earn a passing grade in 8th grade social studies. College Prep or Honors level determined by data-driven teacher recommendation.**

**Modern World History Honors** - 100HH - 1 Credit **Humanities**
Is a course available for those students who have passed 8th grade Social Studies and have a teacher recommendation. In addition to the curriculum listed under Modern World History College Prep, this course stresses extensive reading and writing and includes additional topics.

## Grade 10 Choices and Requirements

*Students in grade 10 must enroll in at least one United States History course. This requirement can be fulfilled by enrollment in the United States History course or AP US History.*

**United States History College Prep (CP)** - 120HCP - 1 Credit **Humanities**
This survey course topically addresses westward expansion, the growth of Industrial America, the United States on the world stage (World Wars I and II), the United States as a post-World War II leader, and the United States into modern times. 21st Century and Common Core Standards are also reinforced. **Prerequisite: Student must earn a passing grade in Modern World History. College Prep or Honors level determined by data-driven teacher recommendation.**

**United States History Honors** - 120HH - 1 Credit **Humanities**
is a course available for those students who have passed 9th grade Social Studies and have a teacher recommendation. In addition to the curriculum listed under United States History College Prep, this course stresses extensive reading and writing and includes additional topics.
***Students who have taken Advanced Placement United States History are not eligible for this course.***

**Advanced Placement United States History/ECE** - 120HAPE - 1 Credit **Humanities**
AP U.S. History is a challenging course that is designed to be equivalent to a freshman college course and to provide students with the necessary content knowledge and skills to successfully pass the AP U.S. History Exam. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. **Note: Students enrolled in this course are expected to take the Advanced Placement Test in United States History.** Where UConn ECE is offered, ECE grading will follow UCONN policies for the year. UConn credits are transferable to many colleges and universities. There is a nominal processing fee per credit charged to students wishing to obtain UConn credit. **Prerequisite: Student must earn a passing grade in Modern World History. College Prep, Honors, or AP level determined by data-driven teacher recommendation.**

## Additional Grade 10 Option

**Advanced Placement Psychology** - 153HAP - 1 Credit **Humanities**
AP Psychology is intended to be equivalent to a freshman college course and is designed to provide students with the necessary content knowledge and skills to successfully pass the AP Psychology exam. Students will examine human behavior, including the history, its study, various theories, case studies, and simulations. Note: Students in this course will still be required to take Civics. **Note:** Students enrolled in this course are encouraged to take the Advanced Placement Test in Psychology. **Prerequisite: Student must earn a passing grade in their previous year of social studies. College Prep, Honors, or AP level determined by data-driven teacher recommendation. *Students may not take this course concurrently with Psychology.***

## Grade 11 Choices and Requirements

**In grade 11, students will choose one of the following options (Economics, Sociology, Psychology, Conversations on Race, or International Relations) in addition to the required half-year Civics Course. Students enrolled in African American/Black and Puerto Rican/Latino Studies, or Advanced Placement Psychology will also take a half year of Civics, but will not be required to take an additional half year course. Students can also choose AP U.S. Government and Politics to fulfill their Civics requirement as well as their requirement for an additional half credit in social studies.**

**Civics (Required of all students-11th grade)-Honors Option** - 110H/110HH - .5 Credit **Humanities**
This course involves the study of the rights and responsibilities of citizens to participate in and shape public policy, how the various levels of government are structured and function, the impact of liberty and equality on the individual, and how major world events impact U.S. security and the individual lives of all citizens. **Prerequisite: Students must earn a passing grade in 10th grade social studies (United States History or AP United States History).** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Advanced Placement U.S. Government and Politics** - 110HAP - 1 Credit **Humanities**
AP U.S. Government and Politics is a challenging course which places the U.S. Constitution at the core of all work and provides students with the necessary content knowledge and skills to successfully pass the AP U.S. Government and Politics Exam. Heavy emphasis is placed on the reading and analysis of foundational documents and Supreme Court cases. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. **Note: Students enrolled in this course are encouraged to take the Advanced Placement Test in U.S. Government and Politics.**
**Prerequisite: Student must earn a passing grade in 10th grade social studies (United States History or AP United States History). College Prep, Honors, or AP level determined by data-driven teacher recommendation. *Students may not take this course concurrently with Civics.***

**Students will choose one of the following courses to fulfill the other half of their junior year requirement if they are not taking Advanced Placement U.S. Government and Politics**

**African American/Black and Puerto Rican/Latino Studies (Honors Option Available)**- 160H/160HH - 1 Credit **Humanities**
The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Recommended Prerequisite US History and Modern World History Humanities. *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Conversations on Race and Ethnicity, Honors Option Available** - 161H/161HH - .5 Credit **Humanities**
This course will focus on learning how race shapes a person's perspective and analyzing what individuals and communities must do to create racial healing in our own schools and communities. This course will be taught in partnership with Bunnell, Stratford, and Newtown High Schools, providing participation in field trips where students in each school will meet and collaborate on course material. These field trips may require students to have COVID and other vaccines in order to participate. This course will provide students with an opportunity to engage in conversations about race, racism, implicit bias, and identity, while providing opportunities for self-reflection and activism. Students will also meet in virtual classrooms to work collaboratively on assignments and assessments.

**Economics (Honors Option Available)** - 150H/150HH - .5 Credit **Humanities**
How do incentives influence choice? What type of competition exists between buyers and sellers? How does competition influence a market? How effective have economic policies been in terms of benefits and costs to a nation? How do economic policies impact the individual? How are globalization trends affecting citizens in terms of daily living such as labor, rights, the environment, and resource distribution? This course

fosters economic thinking, letting students use numbers, data, and patterns to explore economic decision-making including the role of scarcity, exchange and markets, national economies, and global economies. This course taken in addition to Civics fulfills the graduation requirement in social studies. **Prerequisite: Students must earn a passing grade in 10th grade social studies (United States History or AP United States History).** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**International Relations (Honors Option Available) - 151H/151HH**.5 Credit
**International Relations – Model UN (Honors Option Available)-Fall Only** - 154HH - .5 Credit **Humanities**
This course will analyze current international policies addressing the concerns of nation states while analyzing the reasons behind international policy decision-making. This course may include participation in an Internet foreign policy simulation with a variety of different high schools as well as participation in the Yale Model United Nations. This course taken in addition to Civics fulfills the graduation requirement in social studies. **Prerequisite: Students must earn a passing grade in 10th grade social studies (United States History or AP United States History).** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Psychology (Honors Option Available)** - 153H/153HH - 1 Credit **Humanities**
This course is devoted to the study of human behavior and is designed to enlarge the students' awareness of themselves and others. This course taken in addition to Civics fulfills the graduation requirement in social studies. **Prerequisite: Students must earn a passing grade in 10th grade social studies (United States History or AP United States History). Students who have taken AP Psychology are not eligible to take this course.** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Sociology (Honors Option Available)** - 152H/152HH - .5 Credit **Humanities**
This course involves a study of people in society using case studies and employing the inquiry method. Investigation is made into sociological methods and into developing understanding of the relationship between physical environment and social problems. This course taken in addition to Civics fulfills the graduation requirement in social studies. **Prerequisite: Students must earn a passing grade in 10th grade social studies (United States History or AP United States History).** *To motivate and recognize students who want to deepen their knowledge, understanding and application of key concepts, all students have the option to earn Honors distinction and Honors weight on their high school transcript by signing up for the "Honors component." Descriptions and explanations of additional assignments and higher expectations for the Honors component will be provided to students at the beginning of the course.*

**Advanced Placement Psychology** - 153HAP - 1 Credit **Humanities**
AP Psychology is intended to be equivalent to a freshman college course and is designed to provide students with the necessary content knowledge and skills to successfully pass the AP Psychology exam. Students will examine human behavior, including the history, its study, various theories, case studies, and simulations. Note: Students in this course will still be required to take Civics. **Note: Students enrolled in this course are expected to take the Advanced Placement Test in Psychology. Prerequisite: Students must earn a passing grade in their previous year of social studies. College Prep, Honors, or AP level determined by data-driven teacher recommendation. *Students may not take this course concurrently with Psychology.***

**Humanities Electives**

Seniors may enroll in the following courses provided there is room after juniors are enrolled.

**African American/Black and Puerto Rican/Latino Studies (Honors Option)**
**Conversations on Race and Ethnicities (Honors Option)**
**Economics (Honors Option)**
**International Relations (Honors Option)**
**Advanced Placement Psychology**
**Psychology (Honors Option)**
**Sociology (Honors Option)**
**Advanced Placement U.S. Government and Politics**

# SPECIAL EDUCATION

Stratford Public Schools offer a continuum of special education and related services during the student's secondary school years including transition planning to meet the individual needs of identified special education students. In accordance with the Individuals with Disabilities Act (IDEA), students receive their instruction in the Least Restrictive Environment (LRE), which is determined by a Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting. When appropriate, these recommendations are reviewed and modified based on student need and performance. Students are educated in the Least Restrictive Environment (LRE) which may range from general education classes to classes involving specially designed instruction. The academic portion of a student's program includes the four major content areas—English, Mathematics, Science and Social Studies—as well as other classes required for graduation. Depending on student need, there may be greater emphasis on acquiring daily living and prevocational skills across content areas through a combination of classroom instruction and work experience.

The following are examples of our Special Education services:

**Academic Support** Students are offered specially designed instruction to support specific student needs as outlined in their individualized education plan (IEP). Special education teachers consult regularly with other staff to monitor student performance and progress. **Student services are determined by the Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting.**

**Collaborative/Consultative Practices**
Special education and regular education staff work together to deliver services. **Student services are determined by the Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting.**

**Special Education Subject Area Support Courses**
We offer a variety of self-contained courses with modified curricula. Each curriculum provides a planned and coordinated program of study that is directed towards successful individual outcomes for students in any subject area.

**Transition Services**
These services are designed to meet the needs of students with disabilities to help prepare students for real world expectations and make the transition from high school to post secondary training and employment. Transition programs provide instruction in the areas of vocation, independent living, self-help skills and community awareness. Stratford has an in-district transition program called STRIVE. **Student placement is determined by the Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting.**

## In-District Specialized Programs

**BRIDGES** (Building Responsible Independent Graduate Experiences)
*(Currently located at Stratford High School; at Wooster pending Board/budget approval)*
Bridges is a program designed to provide support and instruction in a structured environment for students requiring small group instruction to meet academic and independent living skill needs. Instruction may be provided in the general education classroom or within the Bridges classroom. **Student placement is determined by the Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting.**

**SAILS** (Stratford's Academic and Independent Living Skills)
(*Currently located at Flood Middle School and Bunnell High School*)
SAILS is a program designed to provide support and instruction in a structured environment for students requiring one to one or small group instruction to meet academic, behavior, and adaptive living skill needs. **Student placement is determined by the Planning and Placement Team (PPT)/Individual Educational Plan (IEP) meeting.**

**STEPS** (Support for the Enhancement of Pro Social Skills)
(*Currently located at Bunnell High School, Stratford High School, and Flood Middle School*)
STEPS is a program, supported by a social worker, designed to meet the individual needs of the students who require support services and a structured environment. Instruction may be provided in the general education classroom or within the STEPS classroom. The curriculum provides a planned and coordinated program of study that is directed towards successful outcomes for students. **Students are placed in the program through their Planning and Placement Teams (PPT).**

# WORLD LANGUAGES

| COURSE TITLE | CREDITS | GRADES OFFERED | | | |
|---|---|---|---|---|---|
| French 1* | 1 | 9 | 10 | 11 | 12 |
| French 2 | 1 | 9 | 10 | 11 | 12 |
| French 2 Honors | 1 | 9 | 10 | 11 | 12 |
| French 3 | 1 | | 10 | 11 | 12 |
| French 3 Honors | 1 | | 10 | 11 | 12 |
| French 4 Honors | 1 | | | 11 | 12 |
| French 5/ French 5 AP/ECE | 1 | | | 11 | 12 |
| Spanish 1* | 1 | 9 | 10 | 11 | 12 |
| Spanish 2 | 1 | 9 | 10 | 11 | 12 |
| Spanish 2 Honors | 1 | 9 | 10 | 11 | 12 |
| Spanish 3 | 1 | | 10 | 11 | 12 |
| Spanish 3 Honors | 1 | | 10 | 11 | 12 |
| Spanish 4 | 1 | | 10 | 11 | 12 |
| Spanish 4 Honors | 1 | | | 11 | 12 |
| Spanish 5/ Spanish 5 AP | 1 | | | 11 | 12 |
| Latin 1 | 1 | 9 | 10 | 11 | 12 |
| Latin 2 | 1 | | 10 | 11 | 12 |
| Latin 2 Honors | 1 | | 10 | 11 | 12 |
| Latin 3 | 1 | | | 11 | 12 |
| Latin 3 Honors | 1 | | | 11 | 12 |
| Latin 4 Honors | 1 | | | 11 | 12 |
| AP Latin | 1 | | | | 12 |

The table above indicates the expected sequence of courses by grade levels. Exceptions will be made on an individual basis for students with exceptional linguistic ability or who are native speakers of the language. Budget allocations will determine grade level offerings.

***Starting with the graduating class of 2023, credit may be granted to students who successfully complete Spanish 1 or French 1 in Middle School on a case-by-case basis. Middle school credits will not be used to calculate high school GPA or class ranking.**

***Honor level sections will be offered to students who demonstrate stronger preparation, commitment, and potential. These sections will follow curricular goals similar to their regular level counterparts, but will engage students in more rigorous and in-depth study at an accelerated pace. Classes will be conducted primarily in the target language with greater emphasis placed upon speaking, reading, and extended writing skills. Honors courses at the 3rd and 4th levels will introduce and build upon the proficiency skills and competencies required for success on the pathway toward Advanced Placement and University of Connecticut Early College Experience studies.***

### World Language: Course Sequences

| | | | | |
|---|---|---|---|---|
| (Spanish 1B) | Spanish 1 | Spanish 2 | Spanish 3 | Spanish 4 |
| Spanish 1B | Spanish 2 | Spanish 3 | Spanish 4 | |
| Spanish 1B | Spanish 2H | Spanish 3H | Spanish 4H | Spanish AP/ECE |
| | | | | |

| | | | | |
|---|---|---|---|---|
| (French 1B) | French 1 | French 2 | French 3 | French 4H |
| French 1B | French 2 | French 3 | French 4H | French 5 AP/ECE |
| French 1B | French 2H | French 3H | French 4H | French 5 AP/ECE |
| | | | | |
| Latin 1 | Latin 2 | Latin 3 | Latin 4H / AP Latin | |
| Latin 1 | Latin 2H | Latin 3H | Latin 4H / AP Latin | |

**French 1, Spanish 1** -501H/511H - 1 credit **World Language/Humanities**
This course will introduce high school students to the fundamental sounds, structures, patterns, and symbols necessary to communicate in the target language. Students will acquire basic listening, speaking, reading, and writing skills and develop a growing knowledge and sensitivity to the cultural elements, including geography, history, behaviors, and values, which distinguish the countries and societies represented by that language. **Prerequisite: None**

**French 2, Spanish 2, French 2 Honors, Spanish 2 Honors** **World Language/Humanities**
502H/512H/502HH/512HH - 1 credit
This course will review, reinforce, and expand upon the language and cultural learning that took place during the first year course. Greater emphasis will be placed upon communicating more accurately and effectively in the four modalities - listening, speaking, reading, and writing. Students will significantly expand their knowledge and correct use of vocabulary, idiomatic expressions, and grammatical structures, and deepen their cultural understanding and sensitivity. **Prerequisite:** Successful completion of French 1, Spanish 1 and teacher recommendation and / or approval of World Language Coordinator. **Prerequisite: Student must earn a passing grade in French 1, Spanish 1. College Prep or Honors level determined by data-driven teacher recommendation**.

**French 3, Spanish 3, French 3 Honors, Spanish 3 Honors** **World Language/Humanities**
503H/513H/503HH/513HH - 1 credit
This course will review, reinforce, and expand upon the language and cultural learning that took place during the second year course, but greater effort will be made to engage students in the use of the target language as the primary vehicle of communication. Students will read and respond to selected classical and contemporary materials and advance their skills significantly in the four modalities - listening, speaking, reading, and writing. All language and culture topics will be studied in greater depth as students prepare for the challenges of higher level study in the 4th and 5th year classes, including Honors and AP. **Prerequisite:** Successful completion of French 2, Spanish 2 and teacher recommendation and / or approval of World Language Coordinator. **Prerequisite: Student must earn a passing grade in Spanish 2 or 2H or French 2 or 2 H. College Prep or Honors level determined by data-driven teacher recommendation.**

**Spanish 4** -514H - 1 credit **World Language/Humanities**
This course is recommended for students who wish to develop their language skills for college placement and/or future careers. The target language becomes the primary language and highly intensive practice is conducted in the four modalities - listening, speaking, reading, and writing. Students will learn to communicate at a level, which demonstrates advanced understanding and competency. **Prerequisite: Student must earn a passing grade in Spanish 3 or 3 H. College Prep or Honors level determined by data-driven teacher recommendation.**

**French 4 Honors, Spanish 4 Honors** - 504HH/514HH - 1 credit **World Language/Humanities**
This course is especially recommended for students who wish to develop their language skills for college placement and/or future careers, and is required for those preparing to take the Advanced Placement language course and exam. The target language becomes the primary language and highly intensive practice is conducted in the four modalities - listening, speaking, reading, and writing. Students will read selected classical and contemporary materials, research information, write essays, poetry, and critiques, differentiate between formal and informal speaking and writing, refine grammar, and learn to communicate at a level, which demonstrates advanced understanding and competency. **Prerequisite: Student must earn a passing grade in French 3 or 3 H, Spanish 3 or 3H. College Prep or Honors level determined by data-driven teacher recommendation.**

**French 5/French 5 Advanced Placement/French Early College Experience (AP/College Level)**
- 509HH/505HAP/505HAPE - 1 credit **World Language/Humanities**
**Spanish 5 Advanced Placement/Spanish Early College Experience, (AP/College Level)**
- 515 HAP/515HAPE - 1 credit **World Language/Humanities**
This college level course emphasizes superior comprehension of the target language in all four modalities - listening, speaking, reading, and writing. Students will participate in extensive language review and literary study and demonstrate an exceptional ability to express ideas and opinions, orally and in writing, with fluency, accuracy, sophisticated vocabulary and advanced structures. When AP is offered, students are strongly encouraged to take the Advanced Placement Examination, which upon passing, may qualify them for college credit. In addition, students may have the option to earn University of Connecticut ECE (Early College Experience) equivalent credit for a semester course in French (3250) or Spanish (3178) respectively. **Prerequisite: Student must earn a passing grade in 4 Honors. College Prep or Honors level determined by data-driven teacher recommendation.**

**Latin 1** - 521H - 1 credit **World Language/Humanities**
This course will introduce high school students to the fundamental sounds, structures, patterns, and symbols necessary to communicate in Latin. Students will acquire basic listening, speaking, reading, and writing skills and develop a growing knowledge of Roman culture, including its geography, history, mythology, customs, and values. Students will quickly recognize Latin study as an excellent resource for strengthening their English language skills, given the multitudinous English derivatives. **Prerequisite: None. Recommended: A score of proficiency or higher in reading.**

**Latin 2, Latin 2 Honors** - 522H/522HH - 1 credit **World Language/Humanities**
This course will review, reinforce, and expand upon the language and cultural learning that took place during the first year course. Greater emphasis will be placed upon communicating more accurately and effectively in the four modalities - listening, speaking, reading, and writing. Students will significantly expand their knowledge and correct use of vocabulary, idiomatic expressions, grammatical structures, and English derivatives, and deepen their cultural understanding and appreciation. Continued study in mythology and history will reveal greater aspects of Roman life, customs, and values and their connection to present-day culture. **Prerequisite: Student must earn a passing grade in Latin 1. College Prep or Honors level determined by data-driven teacher recommendation.**

**Latin 3, Latin 3 Honors** - 523H/523HH - 1 credit **World Language/Humanities**
This course will review, reinforce, and expand upon the language and cultural learning that took place during the second year course and focus more heavily upon learning advanced grammatical structures such as the subjunctive mood and passive voice. Students will read selected classical materials, continue their study of mythology, history, and culture, and advance their skills significantly in the four modalities - listening, speaking, reading, and writing. All language topics, especially English derivatives, will be studied in much greater depth as students prepare for the challenges of higher level study at the 4 Honors level. **Prerequisite: Student must earn a passing grade in Latin 2 or 2H. College Prep or Honors level determined by data-driven teacher recommendation.**

**Latin 4 Honors** - 524HH - 1 credit **World Language/Humanities**

This course is especially recommended for students who wish to develop their language skills for college placement and/or future careers. Latin becomes the primary language and highly intensive practice is conducted in the four modalities - listening, speaking, reading, and writing. At this level, students will read authentic Latin prose and poetry selected from such classical authors as Catullus, Ovid, Martial, and Vergil, continue their study of mythology, history, and their exploration of English derivatives, and communicate at a level, which demonstrates advanced understanding and competency. **Prerequisite: Student must earn a passing grade in Latin 3 or 3H. College Prep or Honors level determined by data-driven teacher recommendation.**

**AP Latin** - 520HAP - 1 credit **World Language/Humanities**

This course may run concurrently with Latin 4H for students who show preparation necessary to undertake such a course. AP Latin is an upper-intermediate level college course in Latin focusing on the in-depth study of selections of Vergil's *Aeneid* and Caesar's *Gallic War*. The course is designed to provide advanced high school students the skills needed to read, understand, translate, analyze, and appreciate the richness of Latin poetry and prose. The course may be offered for dual enrollment credit.

# APPENDIX A

## ATHLETICS IN COLLEGE

The National Collegiate Athletic Association (NCAA) is an association of member colleges that make certain rules governing eligibility, recruiting and financial aid. In order to participate in intercollegiate athletics at an NCAA Division I or II institution and be eligible to receive athletically-based financial aid, you must register with the NCAA Eligibility Center and meet eligibility standards. The registration process should start at the beginning of your **sophomore year.**

To learn more about requirements and to register, prospective student athletes should access the registration materials by visiting the NCAA Eligibility Center website at: https://web3.ncaa.org/ecwr3/

Students are advised to become familiar with the requirements of the Eligibility Center:

- Core Credits for certification
- GPA as it relates to the Eligibility Center Index of SAT/ACT scores
- Stratford's "List of NCAA approved Core Courses"

Division 1 and Division 2 athletes have different qualification requirements which have been adjusted due to COVID-19. Please visit the NCAA Eligibility Center for the current requirements.

**Core Course Requirements**

| DIVISION I<br>16 Core Courses | |
|---|---|
| 4 | years of English |
| 3 | years of mathematics (Algebra I or higher) |
| 2 | years of natural /physical science (1 year of lab if offered by high school) |
| 1 | year of additional English, mathematics or natural/physical science |
| 2 | years of social science |
| 4 | years of additional courses (from any area above, foreign language or comparative religion/philosophy) |

| DIVISION II<br>16 Core Courses | |
|---|---|
| 3 | years of English |
| 2 | years of mathematics (Algebra I or higher) |
| 2 | years of natural /physical science (1 year of lab if offered by high school) |
| 3 | years of additional English, mathematics or natural/physical science |
| 2 | years of social science |
| 4 | years of additional courses (from any area above, foreign language or comparative religion/philosophy) |

# CAREER DEVELOPMENT

**Grades 6-12**

The Career Portfolio Tool (Naviance) helps students translate their career and education exploration into concrete plans for success. The program offers a variety of assessments including career interest inventories, college search programs, learning styles assessments and financial aid/scholarship searches.

The following may be offered.

**Grade 10 Career Shadowing**

Students may have the opportunity to identify their career preferences and be matched with local businesses, elementary and middle schools, hospitals, colleges, and training centers that agree to host the student for the day. These shadowing experiences give students some insight into the demands and responsibilities of specific careers, as well as day to day activities. The early formation of career plans can motivate students to continue in school and gain the education necessary to achieve their goals.

**Grades 11-12 Internship/Extended Learning Experience** **0.5 credits – 60 hours**

Opportunities may be offered to juniors and seniors who want to gain experience and learn more about a particular career field. Depending on the student's career pathway, the student is placed at an internship site, which will complement their interests and skills. Whether the student is selecting a college major or looking for a career, participating in an internship can be a very valuable experience.

**Grades 9-12 Mentoring Programs offered to high school students may include:**

**School-Based Mentoring Program**-establishes a relationship with a caring adult who listens attentively to a student who would benefit from positive support and encouragement from an adult role model.

**ACE Mentoring Program**-after school program for students interested in careers in Architecture, Construction Management or Engineering. Students work with industry professionals on authentic projects designed to expose them to related careers and educational opportunities.

# COLLEGE/POST SECONDARY INFORMATION

Admission requirements for colleges vary greatly, but general guidelines like those below can be very helpful for students in planning their program at Stratford High School and Bunnell High School.

**Highly Selective Colleges**

English - 4 Credits
Mathematics - 4 Credits
Science - 4 Credits
Social Studies - 3 Credits
World Language - 3 or 4 years of the same language
Fine Arts - Recommended
Extracurricular or volunteer activities that indicate leadership and initiative
Top 10% of the class
Computer Competency

**Very Competitive Colleges**

English - 4 Credits
Mathematics - 3 or 4 Credits
Science - 3 Credits
Social Studies - 3 Credits

World Language - 3 or 4 years of the same language
Fine Arts - Recommended
Extracurricular or volunteer activities over multiple years that indicate leadership and initiative
Top 25 % of the class
Computer Competency

**Competitive Colleges**
English - 4 Credits
Mathematics - 3 Credits
Science - 2 or 3 Credits
Social Studies - 2 Credits
World Language - 2 years of the same language
Fine Arts - Recommended
Extracurricular activities or volunteer participation
Top 2/3 of the class
Computer Competency

# CONTINUING EDUCATION

**Evening High School – Credit Diploma Program (Not available to students currently enrolled in K-12 day program.)**

The Credit Diploma Program is available to any Stratford adult resident (age 17 and older who has officially withdrawn from K-12 day school) who wishes to complete his/her secondary education. Each applicant must present an **official transcript** from his/her last high school attended. In addition, each 17 and 18 year old student must present an **official, signed withdrawal form** from the student's last high school. Students who successfully complete the required twenty one high school course credits will receive a High School Diploma from the Stratford Board of Education. Courses for credit are available in grades nine through twelve in both academic and elective areas. Some courses are offered online at Connecticut Virtual High School (CTVHS). For further information, contact the Continuing Education Department at (203) 385-4270 or conted@stratk12.org.

**GED® Test Preparation Program - (Not available to students currently enrolled in K-12 program.)**

The GED® Test Preparation Program is available to any Stratford resident who is at least 17 years old, officially withdrawn from K-12 day school and wishes to receive a State of Connecticut High School Diploma by passing the four sections of the GED® Test. In order to apply for the GED® examination, an individual must be 17 years of age or older, no longer enrolled in school and successfully pass the GED® Ready Practice Test. At the time of test registration, individuals 17 and 18 years old must submit documentation from the last previous high school, and demonstrate the following: proof of having been either officially withdrawn from school for at least six months or the class with which they entered ninth grade (or would have entered if never enrolled in high school) has already graduated. For further information, contact the Continuing Education Department at (203) 385-4270 or conted@stratk12.org.

**Middle School Summer School (Grades 7-8)**

Please visit https://stratfordpsct.sites.thrillshare.com/page/continuing-education for current information on requirements.

**High School Summer School (Grades 9-12)**

Please visit https://stratfordpsct.sites.thrillshare.com/page/continuing-education for current information on requirements.

# POSSIBLE DUAL ENROLLMENT OPPORTUNITIES

Students in the Stratford Public Schools often have options to apply for dual enrollment with our partner colleges. Students who apply are starting college transcripts and need to be ready for this responsibility. If a student attends a college other than the one through which the dual enrollment credits are offered, the student will need to request that an official transcript be sent to their university. Each college and university and each academic program establishes its own policies for accepting transfer credit.

**COLLEGE CAREER PATHWAYS - College Credit Programs (CCP)**

The **College Career Pathways Program** is designed to provide high school students with an enhanced program in Career and Technology Education**.** Most CCP courses in Stratford are aligned with Housatonic Community College. The program enables high school students to earn credits in a technical field. These credits can be used at all Connecticut two-year colleges and may be used at four-year colleges. Students should check with the four-year college to determine if the credits will count. Students must complete the application process by the deadlines set by Housatonic or any additional CCP partner.

**Students may have the opportunity to earn college credit in the following courses:**

- Accounting 1
- Intro to Early Childhood Education 1-2 Combined
- Allied Health (Multi-Course Sequence)
- AP Mobile Computer Science through Capital Community College (Pending Approval)

Courses are available free of charge.

**Lincoln Technical Institute**

*Dual enrollment credit may be offered through these courses.*
Exploring Culinary Arts 1 & 2
Bakeshop 1 & 2

**SOUTHERN CONNECTICUT STATE UNIVERSITY (SCSU) EARLY COLLEGE**

Southern Connecticut State University (SCSU) has partnered with Stratford to offer juniors and seniors the opportunity to earn college credit while enrolled in classes in the Stratford Public Schools. Students apply to enroll in challenging courses and start their SCSU transcript. Stratford teachers are certified as adjunct faculty at SCSU. Students must complete the application process by the deadlines set by SCSU.

**Students may have the opportunity to earn college credit in the following courses:**

- AP Language and Composition--up to six credits: 3 credits in Communications and 3 credits in Women and Gender Studies
- AP Statistics (Pending)
- College Algebra 2
- Digital Text and Tools for Learning
- Teachers, Schools and Society

There is a fee and aid may be available to students who need it.

**UNIVERSITY OF CONNECTICUT (UCONN) EARLY COLLEGE EXPERIENCE**

UCONN Early College Experience (ECE) provides academically motivated students with the opportunity to take university courses while in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head-start on a college degree and other postsecondary opportunities. UConn ECE instructors are high school teachers at Stratford High and Bunnell High who are certified as adjunct professors by UCONN. To support rigorous learning, UCONN academic resources (including library and

online classroom access) are available to all UCONN ECE students. The University of Connecticut sets the prerequisites and course requirements for these courses. Students must complete the application process by the deadlines set by UCONN.

*There is a fee and aid may be available to students who need it.*

**Students may have the opportunity to earn college credit in the following courses. The name of the Stratford course as listed in Stratford's Program of Studies is in parentheses.**

- **AH 1100: Introduction to Allied Health Professions (Allied Health Exploration)** *One credit.* Offered Fall or Spring. Overview of health professions, team approach to health care delivery. *Eligibility Guidelines: Instructor consent is required.*
- **AH 2001: Medical Terminology (Medical Terminology)** *Two credits.* Offered Fall, Spring, or Full-year. Introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. Disease processes, symptoms, diagnosis, and treatments that affect various body systems. Terminology associated with disease processes, symptoms, diagnosis, clinical procedures, laboratory tests, and treatments that affect various body systems. *Eligibility Guidelines: Student must have successfully completed or be enrolled concurrently in high school biology. Instructor consent is required.*
- **BIOL 1107: Principles of Biology I (AP Biology UCONN/ECE BIOL 1107/BIOL 1108)** *Four credits.* Offered Fall, Spring, or Full-year. May be taken in either order. Designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include molecular and cell biology, animal anatomy and physiology. Lab exercises include dissection of preserved animals. *Eligibility Guidelines: Student must have studied/been exposed to the fundamental basic principles of inorganic and organic chemistry in a course that in addition contains a laboratory component.*
- **BIOL 1108: Principles of Biology II (AP Biology UCONN/ECE BIOL 1107/BIOL 1108)** *Four credits.* Offered Fall, Spring, or Full-year. May be taken in either order. Designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include evolution and population genetics, plant physiology and diversity, animal diversity and behavior, and ecology. *Eligibility Guidelines: Student must have studied/been exposed to the fundamental basic principles of inorganic and organic chemistry in a course that in addition contains a laboratory component.*
- **CAMS 3102: Topics in Advanced Lation (AP Latin)** *Four credits.* Offered Fall, Spring, or Full-year With a change in content, may be repeated for credit. Reading of Latin texts in the original. Eligibility Guidelines: Successful completion of three or more years of high school Latin (Latin 1-3 at the high school level) or the equivalent is required.
- **CHEM 1127Q: General Chemistry I** (**AP Chemistry UCONN/ECE CHEM 1127Q/CHEM 1128Q)** *Four credits.* Offered Fall only Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gasses, liquids, solids, and solutions. Quantitative measurements illustrating the laws of chemical combination in the laboratory component. *Eligibility Guidelines: Successful completion of basic algebra is recommended. A student must pass CHEM 1127Q with a grade of a "C" or higher to continue on to CHEM 1128Q.*
- **CHEM 1128Q: General Chemistry II** (**AP Chemistry UCONN/ECE CHEM 1127Q/CHEM 1128Q)** *Four credits.* Offered Spring only. Equilibrium, thermodynamics, nuclear chemistry, and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component. *Eligibility Guidelines: Successful completion of basic algebra is recommended. A student must pass CHEM 1127Q with a grade of a "C" or higher to continue on to CHEM 1128Q.*
- **EDCI 1100: If You Love It, Teach It (If You Love It, Teach It)** *Three credits.* Offered Fall, Spring, or Full-year. Studies of K-12 teaching, learning, and schooling in the United States; historical, philosophical, and social foundations of education as well as self-study to reimagine educational

futures. *Eligibility Guidelines: Successful completion of three years of high school English is recommended.*

- **ENGL 1007: Seminar and Studio in Academic Writing and Multimodal Composition** *Four credits.* Offered Full-Year; College composition through multiple forms of literacy, including rhetorical, digital, and information literacies necessary for twenty-first-century contexts. The development of creatively intellectual inquiries through sustained engagement with texts, ideas, and problems. Emphasis on transfer of writing and rhetorical skills to academic and daily life. Students design a digital portfolio that curates creations and skills-based micro-credentials they earn in coursework. *Eligibility Guidelines: Successful completion of three years of high school English is required.*
- **HDFS 1070: Individual & Family Development (Introduction to Individual and Family Development)** *Three credits.* Offered Fall, Spring or Full-year. Human development throughout the life span, with emphasis upon the family as a primary context. *Eligibility Guidelines: Successful completion of two years of English/Language Arts, one year of social studies, and one year of science, or instructor consent, is required.*
- **HIST 1501: United States History to 1877 (AP/UCONN-ECE United States History)** *Three credits.* Offered Fall, Spring, or Full-year. Surveys political, economic, social, and cultural developments in American history through the Civil War and Reconstruction. *Eligibility Guidelines: Successful completion of at least one year of a high school history course recommended.*
- **HIST 1502: United States History Since 1877 (AP/UCONN-ECE United States History)** *Three credits.* Offered Fall, Spring, or Full-year. Surveys political, economic, social, and cultural developments in American history from 1877 to the present. *Eligibility Guidelines: Successful completion of at least one year of a high school history course recommended.*
- **MATH 1131Q: Calculus I (AP Calculus AB or AP Calculus BC)** *Four credits.* Offered Fall only. Limits, continuity, differentiation, antidifferentiation, definite integral, with applications to the physical sciences and engineering sciences. Suitable for students with some prior calculus experience. Substitutes for MATH 1151 as a requirement. *Eligibility Guidelines: Successful completion of one year of pre-calculus is required. A student must pass MATH 1131Q with a grade of a "C" or higher to continue on to MATH 1132Q. To receive credit for the MATH 1131Q – MATH 1132Q sequence a student must pass MATH 1131Q in the Fall with a C or higher and continue to MATH 1132Q in the following Spring. The sequence must be completed in one academic year. Students cannot receive credit for MATH 1131 and MATH 1151*
- **MATH 1132Q: Calculus II (AP Calculus BC)** *Four credits.* Offered Spring only. Transcendental functions, formal integration, polar coordinates, infinite sequences and series, vector algebra and geometry, with applications to the physical sciences and engineering. Substitutes for MATH 1122 as a requirement. *Eligibility Guidelines: Successful completion of one year of pre-calculus is required. A student must pass MATH 1131Q with a grade of a "C" or higher to continue on to MATH 1132Q. To receive credit for the MATH 1131Q – MATH 1132Q sequence a student must pass MATH 1131Q in the Fall with a C or higher and continue to MATH 1132Q in the following Spring. The sequence must be completed in one academic year. Prerequisite: MATH 1131Q in the immediately preceding semester.*
- **MUSI 1011: Fundamentals/Ear Training I** (**AP Music Theory/AP Music Theory ECE**) *Three credits.* Offered Fall, Spring, or Full-year. Basic skills in note reading, rhythm, meter, pitch symbols, scales, key-signatures, intervals, triads, sight-singing, and dictation. No previous training is required. *Eligibility Guidelines: Completion of at least one year of preparatory work in music courses at the high school level is recommended.*
- **MUSI 1012: Fundamentals/Ear Training II** (**AP Music Theory/AP Music Theory ECE**) *Three credits.* Offered Fall, Spring, or Full-year. Further development of skills in music reading, sight-singing, and dictation. *Eligibility Guidelines: A student must pass MUSI 1011 with a grade of a "C" or higher to continue on to MUSI 1012.*
- **PHYS 1201Q: General Physics I (Advanced Placement Physics 1/UCONN PHYS 1201Q)** *Four credits.* Offered Fall, Spring, or Full-year A non-calculus based course introducing the laws of force and

motion applied to mechanical phenomena. Concepts such as work, mechanical energy, linear and angular momentum, and energy conservation are explained. The laboratory offers fundamental training in precise measurements. *Eligibility Guidelines: Successful completion of high school chemistry is recommended.*

- **PHYS 1202Q: General Physics II (Advanced Placement Physics 2/UCONN PHYS 1202Q)** *Four credits.* Offered Fall, Spring, or Full-year. A non-calculus based course introducing the principles governing electromagnetic phenomena, including electromagnetic radiation and waves and electric circuits. The laboratory offers fundamental training in precise measurements. *Eligibility Guidelines: Successful completion of pre-calculus or introductory calculus is recommended. A student must pass PHYS 1201Q with a grade of a "C" or higher to continue on to PHYS 1202Q.*
- **PHYS 1401Q: General Physics with Calculus I (Advanced Placement Physics C/UCONN PHYS 1401Q)** *Four credits.* Offered Fall, Spring, or Full-year. Quantitative study of the basic facts and principles of physics with an emphasis on mechanical phenomena. Concepts such as work, mechanical energy, linear and angular momentum, and energy conservation are explained. The laboratory offers fundamental training in physical measurements. Recommended for non-engineering students who desire to have a calculus-based physics sequence. It is also recommended for science majors whom a one year introductory physics course is adequate. *Eligibility Guidelines: Successful completion of pre-calculus or introductory calculus is recommended. Students who matriculate to UConn may take PHYS 1401Q for not more than two credits, with the permission of the instructor, if students received credits for PHYS 1201Q.*
- **SPAN 3178: Intermediate Spanish Composition (Spanish 5 Advanced Placement/Spanish Early College Experience)** *Three credits.* Offered Fall, Spring, or Full-year. This course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary. *Eligibility Guidelines: Successful completion of three or more years of high school Spanish or instructor consent is recommended.*
- **SPAN 3179: Spanish Conversation: Cultural Topics (Spanish 5 Advanced Placement/Spanish Early College Experience)** *Three credits.* Offered Fall, Spring, or Full-year. Recommended preparation: SPAN 3178. In-depth development of speaking skills through cultural readings, group discussions and oral presentations on selected topics concerning the Spanish-speaking world. *Eligibility Guidelines: Successful completion of three or more years of high school Spanish, successful completion of SPAN 3178, or instructor consent is recommended.*
- **STAT 1100Q: Elementary Concepts of Statistics (AP Statistics)** *Four credits.* Offered Fall, Spring, or Full-year. Standard and nonparametric approaches to statistical analysis; exploratory data analysis, elementary probability, sampling distributions, estimation and hypothesis testing, one- and two-sample procedures, regression and correlation. Learning to do statistical analysis on a personal computer is an integral part of the course. *Eligibility Guidelines: Successful completion of Intermediate Algebra/Algebra II is required*

**UNIVERSITY OF NEW HAVEN COLLEGE CREDIT**

Students who are enrolled in the following Pre-Engineering, **Project Lead The Way** (PLTW) courses are eligible to apply for the "Exemplary Student Recognition Program" through the University of New Haven (UNH). They can receive a college credit transcript if they meet all program requirements.
Students must complete the application process by the deadlines set by UNH.

**Students may have the opportunity to earn college credit in the following courses:**
**University of New Haven PLTW Course Equivalents**

- Introduction to Engineering Design = UNH course ME201 (2 semester credits)
- Principles of Engineering = UNH course EE155 (3 semester credits)
- Digital Electronics = UNH course EAS207 (3 semester credits)
- Engineering Design & Development = UNH course EAS109 (2 semester credits)

There is a fee and aid may be available to students who need it.

# LEAST RESTRICTIVE ENVIRONMENT

All educational programs and activities for students with disabilities will be provided in the least restrictive environment in accordance with the requirements of the Individuals with Disabilities Act (IDEA) and with Connecticut General Statutes 10-76a-l (L) as indicated by the Individual Education Plan (IEP).

# ONLINE COURSES

For the complete Online Courses Policy number 6172.6 visit:
https://core-docs.s3.amazonaws.com/documents/asset/uploaded_file/1913322/6172.6_Online_Courses.pdf

# OTHER OPPORTUNITIES TO EARN CREDIT

**Community Service** **0.5 credit**

The Community Service program provides an opportunity for students in grades 9-12 to earn credit for volunteer service to a non-profit or governmental agency. A 0.5 credit is awarded for the completion of 60 hours of Community Service which can include 10 hours of classroom instruction. Students cannot earn more than 0.5 credits toward graduation for Community Service. Students must provide their own transportation. Volunteer service must not interfere with the normal school day.

**Internship** **0.5 to 1 credit**

Students may register for work experience programs in the high school's main office, guidance office, library, health center, or another setting in a high school. This option provides students with work-based learning, structured training, and mentoring opportunity. Through these work experiences, students acquire the knowledge and skills appropriate to a specific career and the general work expectations of promptness, commitment, and persistence that can serve them in all careers. Work experience is scheduled in place of a study hall and students earn credit based on the number of periods and number of semesters scheduled. Work experience courses are graded on a S/U scale for successful or unsuccessful performance, respectively. Grade determination is made by the student's work experience supervisor based on job performance.

**Work Experience- 890H-0.5 to 1 credit** **STEM**

Students in their junior or senior years may apply to earn credit for work completed outside of the school day. A 0.5 credit is awarded for the completion of 60 hours of work Students cannot earn more than 1 credit toward graduation for work experience. Students must provide their own transportation. Work must not interfere with the normal school day.

# SCHOOL COUNSELING SERVICES

**School Counseling Department**

Stratford's school counseling department offers a comprehensive program of services and curriculum designed to respond to the developmental needs of all students in grades 6-12. The program facilitates student development in three major areas: Academic, Career, and Personal/Social.

Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. This comprehensive college and career readiness solution empowers students and families to connect learning and life and provides schools and districts with the information they need to help students prepare for life after high school. It also allows students to create a plan for their futures by helping them discover their individual strengths and learning styles and explore college and career options based on their results.

## STUDENT EXPENSES

Some courses may require payment of a materials fee or tuition fee if the course is eligible for college credit. Some courses involve opportunities for field trips or special out-of-school programs. Several of these involve expenses for transportation or admission. Students who are eligible for federal free or reduced price school lunches can request a waiver of these fees by contacting the school's principal.

## TRANSFERRED CREDITS

For the complete Transfer of Credits Policy Number 6172.61 visit:
https://core-docs.s3.amazonaws.com/documents/asset/uploaded_file/1913323/6172.61_TransferofCreditsPolicy.pdf