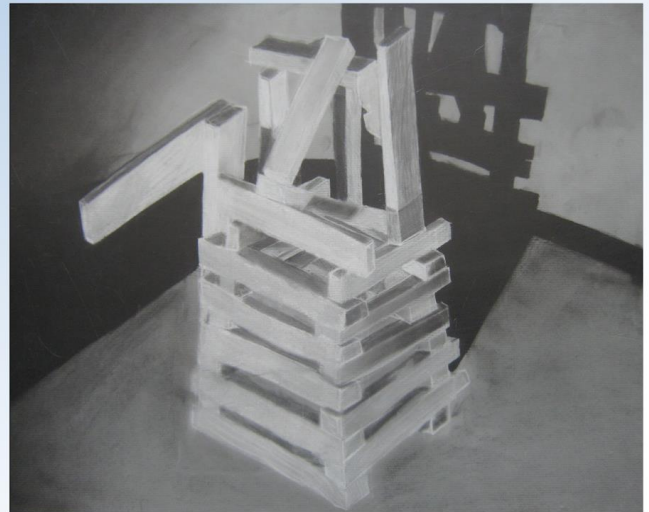


# Ansonia High School Program of Studies



2019 - 2020



## Principal's Message:

Ansonia High School's faculty and staff welcome you to the 2019-2020 school year! Ansonia High School's Program of Study is designed to provide each student with a positive, engaging, purposeful, and rigorous learning experience. Students are encouraged to work with their teachers, guidance counselors and parents in order to create a program of study that meets their needs and personalizes their learning.

We have designed our courses so that so that they are aligned with the Connecticut Department of Education Career Clusters. Career clusters are occupations and career specialties that share a common foundation of knowledge and skills for career success. Ansonia High School has a variety of courses that provide a foundation of knowledge for each career area. As students enter their freshman year, conversations about future potential careers should begin in and outside of school.

Upon graduation, Ansonia High School students will be prepared to meet the high expectations of postsecondary experiences. The courses in this program provide students with the ability to engage in authentic problem solving and utilize critical thinking skills. These courses are also designed to prepare students for admission to a four- year college, technical school, and the military. In addition, students will be prepared to effectively communicate and navigate through life experiences by reading, writing, speaking and applying math in real-world situations.

The program of studies should be used as a guide to help students select courses that follow a recommended sequence. Parents and students are encouraged to work closely with guidance counselors to develop an individual Student Success Plan. This plan will help all students reach their individual academic, social, and civic goals.

Our goal as a high school is for our students to leave with the knowledge and confidence needed to make a difference in the world. We look forward to collaboratively working with our students and families. If we can be of assistance, please contact our staff or come and visit our school.

Paul Giansanti  
Principal

Sara Crooks  
Assistant Principal

Thomas Brockett  
Dean of Student Affairs,  
Director of PACE

---

The mission of AHS is to prepare all students to reach their potential by teaching them the knowledge, skills and behaviors necessary for academic, civic, and social success. Students will be college and career ready in the ever-changing technological world of the 21st century by meeting high expectations, engaging in authentic problem solving, and utilizing critical thinking.

Courtesy · Pride · Perseverance · Cooperation

**Chargers Promoting Positive Change**

## Table of Contents

	PAGE
Statements and Disclosures	4
Core Values and Beliefs Statement and Academic, Civic, and Social Expectations	7
Positive Behavior Intervention and Support	8
School Counseling Services	8
Naviance	9
Freshman Academy	10
Graduation Requirements	11
Level and Credit Legend	13
Advanced Placement	1413
UConn ECE	14
Housatonic Community College	14
University of Bridgeport	14
Career Clusters	15
Art Education	17
English	18
World Language	21
ESL	23
Music	24
Social Studies	25
Mathematics	27
Science	30
Physical Education and Health	34
CTE: Culinary	35
CTE: Business and Finance Technology	35
CTE: Technology Education/PLTW	38
Special Education	41
Miscellaneous	42
NCAA Eligibility	43

## **Statements and Disclosures**

### **Non-Discrimination Policy 5145.4(a)**

This school system pledges to avoid discriminatory actions and seeks to foster good human and educational relations which will help to maintain:

1. equal right and opportunities for all students in the school community;
2. equal opportunity for all students to participate in the total school program of the schools;
3. continual study and development of curricula toward improving human relations and understanding and appreciating cultural differences;
4. training opportunities for improving staff ability and responsiveness to educational and social needs of students;
5. opportunities in educational programs which are broadly available to all students with access not solely based upon race, color, religious creed, age, marital status, national origin, sex, sexual orientation, handicap or physical disability;
6. an appropriate learning environment for all students which includes (a) adequate instructional books, supplies, materials, equipment, staffing, facilities and technology, (b) equitable allocation of resources among district schools and (c) a safe school setting.

Each student, at the time he/she becomes eligible for participation, will be advised of his/her right to equal access under Rehabilitation Act of 1973, Section 504 to participate in school programs without discrimination on account of race, color, sex, sexual orientation, religion or national origin, or physical disability.

The Superintendent shall develop regulations for hearing student grievances.

The Board will designate an individual to serve as the school system's nondiscrimination Compliance Officer and will publicize the name, office address, and business telephone number of the designee. Inquiries about the enforcement of this nondiscrimination policy can be directed to the Compliance Officer, or to the Director of the Office of Civil Rights, Washington, D.C.

### **School Choice Statement**

Parents and students are encouraged to explore educational opportunities that are offered in the school district locally and regionally. These options may include magnet, charter, lighthouse and vocational-technical schools; Open Choice and inter-district programs; and vocational agriculture centers. Contact the Guidance Department for further information on these School Choice Options.

## **Grievance Procedure for Title VI, Title IX and Section 504**

It is the policy of the Ansonia Board of Education not to discriminate against otherwise qualified individuals in any of its educational programs, activities, or employment practices on the basis of race, sex, national origin, color, religion, handicapped condition, age, sexual orientation, marital status, or disability in any of its vocational education programs or regular academic programs or activities.

The following Career and Technical Education programs are offered:

- Technology Education I, Technology Education II, Introduction to Engineering and Design, Principles of Engineering and Design, Digital Electronics, Aerospace Engineering, Engineering Design and Development
- Business Editing and Publishing I, Business Editing and Publishing II, Computer Applications I, Computer Applications II, Advanced Computer Applications, Digital Darkroom: Graphic Arts
- Business Law, The Business of Sports and Entertainment, Consumer Economics, Foundations of Business, Global Business and Society, HCC CCP Accounting, HCC CCP Marketing, Personal Finance I, Personal Finance II
- Foods I, Foods II, Professional Cooking

The Ansonia Public Schools are required to honor the above policy in all school activities, employment, and throughout the physical plant. Should a student, employee, or vendor feel discriminated against or sexual harassment is present, he/she may file a complaint by contacting the appropriate coordinator listed below:

### **Title VI Coordinator:**

Mr. Paul Giansanti, Principal  
Ansonia High School  
20 Pulaski Highway  
Ansonia, CT 06401  
Telephone (203) 736-5060

### **Title IX Coordinator**

Mr. Paul Giansanti, Principal  
Ansonia High School  
20 Pulaski Highway  
Ansonia, CT 06401  
Telephone (203) 736-5060

### **Section 504 Coordinator:**

Mr. Kevin Keating, Director of Special Services  
Special Education Department  
Ansonia Board of Education  
42 Grove Street  
Ansonia, CT 06401  
Telephone (203)736-5099

## **Grievance Procedure**

1. Any complaint from or on behalf of any person employed, or any person (including parents and students) served by the school department, shall be communicated to: Mr. Paul Giansanti or Mr. Kevin Keating (refer to above for addresses and telephone numbers).
2. The Coordinator shall investigate the complaint, attempt to resolve the issue, and report his findings to the Affirmative Action Committee.
3. This committee, if the issue has not been resolved, will consider the evidence in the case submitted by the aggrieved and the coordinator, and recommend any corrective action to be undertaken by the superintendent.
4. Any appeal from the decision of the superintendent may be taken to the school board within ten (10) days.
5. An appeal from the school board decision may within ten (10) days be brought to the Federal Office of Civil Rights, and an appeal from the latter's decision may be brought in the federal courts, whose decision shall be final.
6. Office for Civil Rights (OCR) enforces several Federal civil rights laws that prohibit discrimination in programs or activities that receive Federal financial assistance from the Department of Education. These laws prohibit discrimination on the basis of race, color, and national origin, sex, disability, and on the basis of age. These laws extend to all state education agencies, elementary and secondary school systems, colleges and universities, vocational schools, proprietary schools, state vocational rehabilitation agencies, libraries, and museums that receive U.S. Department of Education funds. OCR also has responsibilities under Title II of the Americans with Disabilities Act of 1990 (prohibiting disability discrimination by public entities, whether or not they receive federal financial assistance). In addition, as of January 8, 2002, OCR enforces the Boy Scouts of America Equal Access Act (Section 9525 of the Elementary and Secondary Education Act of 1965, as amended by the No Child Left Behind Act of 2001). Under the Boy Scouts of America Equal Access Act, no public elementary or secondary school or State or local education agency that provides an opportunity for one or more outside youth or community groups to meet on school premises or in school facilities before or after school hours shall deny equal access or a fair opportunity to meet to, or discriminate against, any group officially affiliated with the Boy Scouts of America, or any other youth group listed in Title 36 of the United States Code as a patriotic society.

US Department of Education, Office for Civil Rights  
33 Arch Street, Suite 900  
Boston, MA 02110-1491

Phone: 617-289-0111 Fax: 617-289-0150  
email: [OCR.Boston@ed.gov](mailto:OCR.Boston@ed.gov)

[www.ed.gov/about/offices/list/ocr/know.html](http://www.ed.gov/about/offices/list/ocr/know.html)

[\(OCR Complaint Process, Sex Discrimination, Race and National Origin Discrimination, Age Discrimination, Disability Discrimination, Boy Scouts of America Equal Access Act\)](#)

# Ansonia High School

---

## Core Values, Beliefs, and Learning Expectations

---

### Core Values

**C**ourtesy · **P**ride · **P**erseverance · **C**ooperation

**Chargers Promoting Positive Change**

The mission of AHS is to prepare all students to reach their potential by teaching them the knowledge, skills and behaviors necessary for academic, civic, and social success. Students will be college and career ready in the ever-changing technological world of the 21<sup>st</sup> century by meeting high expectations, engaging in authentic problem solving, and utilizing critical thinking.

### Academic Expectations

- Apply critical thinking skills to solve problems
- Access, evaluate, apply, and communicate information and ideas through writing, speaking, and effective use of technology
- Read effectively for a variety of purposes
- Work independently, reflectively, and/or collaboratively to accomplish goals

### Civic Expectation

- Demonstrate service to the school and community

### Social Expectation

- Demonstrate respect for self, others and property within our school community





## **Positive Behavior Intervention and Support (PBIS)**

PBIS is an application of a behaviorally-based systems approach to enhance the capacity of schools, families, and communities to design effective environments that improve the fit or link between research-validated practices and the environments in which teaching and learning occurs. Attention is focused on creating and sustaining primary (school-wide), secondary (targeted group or simple individual plans), and tertiary (individual) systems of support that improve lifestyle results (personal, health, social, family, work, recreation) for all children and youth by making problem behavior less effective, efficient, and relevant, and desired behavior more functional. (<http://www.pbis.org>)

The goal of PBIS at Ansonia High School is to reduce the number of discipline referrals school wide by evaluating data, systems and practices used by professional staff members and reinforcing and acknowledging positive behavior school wide.

Ansonia High School students and Staff will adhere to the PBIS Chargers Promoting Positive Change motto below:

### **Chargers Promoting Positive Change (CPPC)**

<b>Courtesy:</b>	Treat others as you would want to be treated
<b>Pride:</b>	Always give your best effort
<b>Perseverance:</b>	Work to overcome challenges
<b>Cooperation:</b>	Work together to achieve a common goal

## **School Counseling Services**

Ansonia High School's' Comprehensive School Counseling Program is designed to address the developmental needs of all students. Through a planned, individualized, and sequential program, each student will develop his/her individual potential in the areas of academics, personal/social development, and career pathways awareness with an emphasis on becoming lifelong learners. Each AHS student, with assistance and support from an Advisory Teacher, school counselor, and parent(s)/guardian(s), develops an individualized Student Success Plan, addressing individual needs and interests, connections to school, and postsecondary educational and career goals.

Students are strongly encouraged to see their school counselors on a regular basis, beginning in grade nine and continuing throughout senior year. In addition, school counselors guide the course selection and scheduling process for all students through individual planning meetings during the school year. Each school counselor provides grade level, classroom setting workshops once per quarter, based on grade level needs and priorities. Programs are offered to students and parents annually. Please see your school counselor to make an appointment.



As indicated below, each student has an assigned school counselor. If a student's concern is of an immediate and urgent nature, the guidance secretary will assist the student to meet with an available school support staff.

### **Counselor Assignments:**

<b>Counselor</b>	<b>Students with Last Name Beginning:</b> (Subject to minor changes based on enrollment)
Mrs. Erin Corso, Lead	Grades 10-12 <b>N- Z</b>
Mrs. Daphne Edwards-DaRosa	Grades 10 - 12 <b>A - M</b>
Ms. Wendy Chin	Grade 9: All PACE

### **Naviance**

Naviance is an online platform used for electronic submission of official documents from the school counseling office to colleges, data collection, research on colleges and careers, and record keeping. The Naviance website provides access to interest inventories, academic planning, career paths, and scholarship data. *Naviance Student* is a comprehensive website for parents and students alike, and can be used to develop and revise each student's Student Success Plan. Also, *Naviance Student* allows students and parents to be personally involved in the planning process by helping students develop and revise goals, build a resume, complete online interests surveys, and manage timelines and deadlines for making college and career decisions. The *Naviance Student* link is available on the Guidance page of the Ansonia High School website.

## **Freshman Academy**

Ansonia High School's Freshman Academy supports a smooth transition from middle school to high school, provides team teaching, which enables staff to support students in their core courses at a greater capacity, and allows for a continuous review of academic expectations and strategies.

In order to be promoted to Sophomore year, students must complete **6 credits**. All freshman will be enrolled in the following courses:

- o English I (1 credit)
- o Algebra I or Geometry (1 credit)
- o General Science (1 credit)
- o Global History (1 credit)
- o Freshman Seminar (1 credit)

The following additional courses are available to 9th grade students. Students are encouraged to select courses that equal 2 - 3 full credits:

- o Computer Applications I (.5 Credit)
- o Band I (1.25 credit)
- o Personal Health (.5 Credit)
- o Physical Education (.5 credits)
- o Art I and II (.5/.5 credit)
- o Technology Education (1 Credit)
- o Chorus I (1 credit)
- o World Language (1 credit)
- o Introduction to Engineering (1 Credit)
- o Developmental Reading (.25 credits) English department recommendation only
- o Achievement Math (.25 credits) Teacher recommendation only
- o RRI/RRII (.5/.5 credits) Based on PPT recommendation only

## **Grade Level Advancement**

Advancement to the next grade level depends upon the accumulation of a specific number of credits. Students who have not earned the specific credits will not be assigned to or categorized with the succeeding class:

To enter grade 10 (sophomore):	6 total credits
To enter grade 11 (junior):	12.5 total credits
To enter grade 12 (senior):	19.5 total credits
To graduate:	25 total credits

## Graduation Requirements

To graduate from Ansonia Public Schools a student must successfully complete a minimum of twenty-five (25) credits (for graduating classes of 2020 and on) and must have met the credit distribution requirements described below. Students must also meet basic skills standards in three areas: Literacy, Numeracy, and Civic and Social Responsibility.

### CREDIT DISTRIBUTION REQUIREMENTS

#### I. Requirements for the Graduating class of **2020, 2021, 2022**

- **English** – 4 Credits (including English I, II, III and either Honors College Writing, AP English IV or half year Senior Composition and half year senior English elective)
- **Mathematics** - 4 credits
- **Social Studies** – 3 Credits (including U.S. History and ½ Credit in Civics and American Government)
- **Science** - 3 credits
- **World Language** - 2 credits
- **Career/Life Skills** – 2 credits (including Computer Applications I)
- **STEM** – 1 credit
- **Fine Arts** – 1 credit
- **Humanities** – 1 credit
- **Freshman Seminar** – 1 credit
- **Physical Education** - 1 credit
- **Health** - 0.5 credits
- Meet the high school graduation basic skills standards

#### II. Requirements for the Graduating class of **2023**

- **Humanities - 9 credits**
  - English – 4 Credits (including English I, II, III and either Honors College Writing, AP English IV or half year Senior Composition and half year senior English elective)
  - Social Studies – 3 Credits (including U.S. History and ½ Credit in Civics and American Government)
  - Humanities Electives - 2 Credits (Fine Arts, English, Business, Social Studies, Family Consumer Science, World Language)

- **STEM** (Science, Technology, Engineering & Math) - **9 credits**
  - Mathematics - 4 credits
  - Science - 3 Credits (General Science, Biology, Chemistry or Science elective)
  - Life Skill - 1 credit (.5 Computer Applications, .5 Personal Finance)
  - STEM elective - 1 credit (Math, Science, Tech Ed, Business, Engineering, etc)
- **World Language** - **2 credits**
- **Mastery Based Diploma Assessment** - **1 credit** (Freshman Seminar)
- **Physical Education** - **1 credit**
- **Health & Safety** - **1 credit**
- **Additional Electives** - **2 credits**
- *Meet the high school graduation basic skills standards*

### III. Requirements for Diploma of Distinction:

- Top 20% of the class
- Completion of the SAT
- 4 credits in Math, Science, English, Social Studies (including US History and ½ Civics/Government)
- 3 credits World Language
- 1 credit Vocational Education and/or the Arts
- 1 credit Physical Education
- ½ credit Personal Health
- ½ credit Computer Applications
- Meet the high school graduation basic skills standards

## **BASIC SKILLS STANDARDS**

1. **LITERACY:** The AHS student demonstrates the ability to read and write proficiently when accessing, processing, and communicating information.
2. **NUMERACY:** The AHS student demonstrates the ability to complete basic math operations including fractions, percents, decimals, and exhibits an understanding of basic data interpretation.
3. **CIVIC AND SOCIAL RESPONSIBILITY:** The AHS student demonstrates an awareness of the rights and responsibilities of citizenship by successful the completion of the required civics course (Civic)

## **OPPORTUNITIES TO FULFILL BASIC SKILLS STANDARDS REQUIREMENT**

Students will have multiple opportunities to complete the performance assessments:

- All freshman and sophomores are required to take the PSATs.
- Juniors will take the PSAT in the fall and SAT in the spring.
- Seniors who do not meet the standard during their junior year will be required to take SAT during their senior year.

### **EXEMPTIONS:**

- Transfers: Students who transfer into Ansonia High School after completing at least three years in another district may be exempted from the performance standards requirement for graduation.
- Special Needs Students: Students with special needs may be given an alternative performance task, or they may be exempted if so indicated in their Individual Education Plan.
- A student may be exempted from meeting any and all of the basic skills graduation standards at the discretion of the Superintendent of S

### **LEVELS AND CREDITS**

<b>Course Standing</b>	<b>Level</b>	<b>Credit to be Earned</b>
Advanced Placement/Lab	0	1.50
Advanced Placement	0	1.00
UConn ECE	0	1.0 - 1.5
Honors/Lab	1	1.25
Honors	1	1.00
Honors	1	.50
College Prep/Lab	2	1.25
College Prep	2	1.00
College Prep	2	.50
Academic	3	1.00
Academic	3	.50
General	4	1.00
General	4	.50
Pass/Fail		1.00
Pass/Fail		.50
Pass/Fail		.25

### **Advanced Placement (AP)**

Ansonia High School offers and ever-increasing number of Advanced Placement courses to a wide variety of students. Established and administered by the College Board, this challenging and exciting academic program allows students the

opportunity to demonstrate to themselves and others that they accept the rigor of college level coursework and can maintain consistent achievement. Culminating with an AP examination, each course affords students the added opportunity to attain college credit.

### **UConn Early College Experience (ECE)**

UConn Early College Experience is an opportunity for students to take college course while still in high school. Every UConn ECE course is equivalent to the same course at the University of Connecticut. Students who earn a grade of C or higher in an ECE course will have the credits applied toward their college career. UConn ECE courses are taught in the high school by certified instructors who serve as UConn adjunct faculty members. Since UConn ECE is a concurrent enrollment program, students gain both high school and university credit for each UConn course taken at their high school.

Students must successfully complete the course with a grade of C or better in order to receive university credit. There is no monetary charge for these courses for the 2019-2020 School Year.

### **Housatonic Community College (HCC), College Career Pathways (CCP)**

Ansonia High School students have the opportunity to participate in Housatonic Community College's "College Career Pathways Program", whereby various HCC courses are taught at Ansonia High School by our staff. The collaboration has three specific objectives:

1. To encourage high school students to pursue post-secondary education
2. To provide a smooth transition from high school to college
3. To build the confidence and competence within each participant that ensures that they are prepared to succeed on a higher educational level

With a grade of C or better, and course specific guidelines, three or four transferable college credits may be attained for each course taken.

### **University of Bridgeport**

The University of Bridgeport's Dual Enrollment Program is an opportunity for high school students to start earning college credits. High school students can enroll in one or more Dual Enrollment course offered at Ansonia High School(AHS). AHS teachers are certified to instruct the Dual Enrollment classes, which are based on a syllabus and guidelines provided by the The University of Bridgeport (UB). Once students have successfully completed a Dual Enrollment Program course, they will receive academic credit that is equal to completion of the same course taught at UB.

## **State of Connecticut Career Clusters**

In order to enhance student awareness of available careers, the Connecticut Department of Education has identified sixteen Career Clusters. Career clusters are occupations and career specialties that share a common foundation of knowledge and skills for career success. As a subgroup of career clusters, career pathways continually evolve and reflect occupational areas to meet the dynamics of the national and state economic landscape. Ansonia High School offers a variety of courses that provide a foundation of knowledge for each career area. Below are suggested courses to take for specific career clusters, although many courses can cross multiple career areas. It is recommended that students use this chart as a point of reference when conferencing with his/her school counselor about appropriate course selection and post-secondary planning. It is important to note that English I-III, Honors College Writing and Senior Composition are relevant to all careers.



### **• Agriculture, Food and Natural**

**Resources** Foods I, Foods II, Introduction to Professional Cooking, AP Environmental Science, Marine Biology, ECE Oceanography, Practical Literature, Understanding the Media, Multicultural Literature, Foundations of Research

**• Architecture and Construction** Tech Ed I, Tech Ed II: Construction, Intro to Engineering, Principles of Engineering, Engineering Design and Development, Blueprint Reading, SolidWorks, Foundations of Research

**• Arts, Audiovisual Technology and Communications** Art I, Art II, ECE Art III, Graphic Arts: Digital Dark Room, Digital Electronics, Ceramics I, Ceramics II, Interdisciplinary Art & World Cultures, Journalism I-IV, Business Editing and Publishing, AP Literature, Understanding the Media, Multi-Cultural Literature, Shakespeare, Journalism, Graphic Novel

### **• Business, Management and Administration**

Business Law, Business Editing and Publishing, Business of Sports and Entertainment, Computer Applications I and II, HCC Accounting, HCC Marketing, Entrepreneurship, Personal Finance I & II, AP Language, Practical Literature, Understanding the Media, Multi-Cultural Literature, Foundations of Research, Foundations of Business, Global Business and Society, Advanced Computer Concepts

**• Education and Training** AP Psychology, AP Language & AP Literature, Popular Literature, Understanding the Media, Multi-Cultural Literature, Shakespeare, Journalism, Writing Workshop, Graphic Novel, Foundations of Research, Life Skills Assistant

**• Finance** Personal Finance I and II, Accounting, Entrepreneurship, Consumer Economics



• **Government and Public**

**Administration** US History, Modern American History, Civics/Government, Civics II, Political Science, Business Law, Journalism, AP Language, Understanding the Media, Multi-Cultural Literature, Journalism, Graphic Novel, Foundations of Research

• **Health Sciences** Anatomy & Physiology, Microbiology, Biology, AP Biology, Personal Health, Physical Education for a Lifetime, Advanced Physical Education, Intro to Forensics, Chemistry, AP Chemistry, AP Language, Multicultural Literature, Foundations of Research

• **Hospitality and Tourism**

Entrepreneurship, Business Law, Understanding the Media, Multi-Cultural Literature, Journalism, Foods I & II, Professional Cooking, Marketing

• **Human Services** AP Psychology, Sociology I and II, Popular Literature, Multi-Cultural Literature, Shakespeare, Foundations of Research

• **Information Technology** Computer Applications I and II, Advanced Computer Concepts, Intro to Computer Science, AP Computer Science, Graphic Arts: Digital Dark Room, Digital Electronics, Understanding the Media

• **Law, Public Safety, Corrections and Security** Business Law, Law History, Law II Criminal / Juvenile, Sociology, AP Psychology, Journalism, Intro to Forensics, AP Language, Understanding the Media, Multi-Cultural Literature, Journalism, Graphic Novel, Foundations of Research

• **Manufacturing** Tech Ed I and II, Intro to Engineering Design, Principles of Engineering, Aerospace Engineering, Engineering Design and Development, Blueprint Reading, SolidWorks

• **Marketing, Sales and Service**

HCC Marketing, Entrepreneurship, Business Law, AP Language, Understanding the Media, Multi-Cultural Literature

• **Transportation, Distribution and Logistics**

Physics, Aerospace Technology, Foundations of Research

• **Science, Technology, Engineering and Mathematics (STEM)**

Computer Applications I and II, Advanced Computer Concepts, Intro to Computer Science, AP Computer Science, Computer Science and Software Engineering, Graphic Arts: Digital Dark Room, Digital Electronics, AP Physics, Aerospace Technology, AP Calculus, AP Statistics, Pre-Calculus, Algebra I and II, Geometry, Applied Algebra and Geometry, AP Environmental Science, ECE Oceanography, Anatomy & Physiology, Microbiology, AP Biology, Biology, Marine Biology, AP Chemistry, Chemistry, Intro to Forensics, Astronomy, Tech Ed I and II, Intro to Engineering Design, Principles of Engineering, Aerospace Engineering, Engineering Design and Development, Blueprint Reading, SolidWorks, Foundations of Research

## **ART EDUCATION**

**Art I** In this half year course the students explore the basic theories of fine art. Students will use the Elements of Design in a variety of drawing, painting, printmaking, and 3-dimensional art projects. Students will engage in oral and written assessments and evaluations of their own and others' work. This course is designed to satisfy graduation requirements and is designed for students who are interested in art and is foundational for subsequent courses. *Fulfills Fine Arts Credit (2020, 2021, 2022) or Humanities Elective Credit (2023)*

Level 2            .50 Credit

**Art II** As a half year course, it is designed for students who wish to pursue further study of 2-dimensional fine art. The students will be able to apply the Elements and Principles of Design in higher level drawing, painting, and printmaking assignments. The investigation of materials and trends through art history will be discussed. Students will continue to assess their own and others' work in a variety of ways. *Fulfills Fine Arts Credit (2020, 2021, 2022) or Humanities Elective Credit (2023)*

Level 2            .50 Credit

Prerequisite: Art I (C or better) or teacher recommendation

**ECE/Art III** This is a full year course with Art III heavily emphasizing further study of techniques, media, art history and movements. Students will investigate the application of the Elements and Principles of Design in 3 dimensions. Development of personal style and preferences will be emphasized. Formulation of a portfolio for college admission and career opportunities will be an on-going focus throughout the year. ECE/Art III is heavily individualized with portfolio preparation being the ultimate goal for students interested in applying for art programs at the college level. Specific guidelines for certain college programs will be met. Existing portfolios will be augmented with live and electronic artwork as needed or desired. After school work may periodically be required. As a UConn ECE Course, students have the potential to earn 3 UConn college credits pending completion of course requirements. There is no monetary charge for these courses for the 2018-2019 School Year. *Fulfills Fine Arts Credit (2020, 2021, 2022) or Humanities Elective Credit (2023)*

Level 0            1 Credit

Prerequisite: Art II (B- or better) and teacher recommendation

**Ceramics I** As a half year course, students explore the functional and sculptural methods of hand building. Instruction in pinch, coil, slab, basic glazing and firing techniques will be covered. *Fulfills Fine Arts Credit (2020, 2021, 2022) or Humanities Elective Credit (2023)*

Level 2            .50 Credit

Prerequisite: Grade 11-12 students

**Ceramics II** This sequential half year course focuses primarily on wheel throwing technique. Students will also use hand-building techniques in concert with wheel skill to create functional and sculptural pieces. More advanced glazing and firing methods will be covered. *Fulfills Fine Arts Credit (2020, 2021, 2022) or Humanities Elective Credit (2023)*

Level 2            .50 Credit

Prerequisite: Ceramics, grade 11-12 students

## **ENGLISH**

**English I** This full year required course provides an in-depth study of grammar, mechanics and composition, and vocabulary development. Combined with a literary exploration of the short story, nonfiction, poetry, drama, and the novel, students will integrate their understanding of these literary forms with the ability to compose responses on various analytical and interpretive levels of study. *Fulfills English I Credit, (class of 2020 - 2023)*

Level 2            1 Credit

**English II** As a full year required course, the reinforcement of grammar, mechanics and composition, and vocabulary skills are continued. A more in depth overview of the short story, nonfiction, poetry, drama and the novel will coincide with an emphasis on argumentative and critical writing. *Fulfills English II Credit (class of 2020 - 2023)*

Level 1            1 Credit  
Level 2            1 Credit  
Prerequisite:    English I

**English III** This third requirement is a full year survey of American literature that includes an examination of nonfiction, the novel, poetry, and drama. The reinforcement of oral and written language skills through the study of grammar, vocabulary, and composition will culminate in the process of literary research and writing a formal research paper. *Fulfills English III Credit (class of 2020 - 2023)*

Level 1            1 Credit  
Level 2            1 Credit  
Prerequisite:    English II

**AP Language and Composition** This junior course asks students to demonstrate their ability to read, with care and discrimination, various prose pieces written in a range of historical periods in a variety of modes and moods. The majority of the works will be by American authors. The students will strive to "demonstrate their mastery of the skills and abilities in analyzing the rhetoric in prose passages." Students are also asked to demonstrate their skill in composition by writing essays of varying lengths in various rhetorical modes. Skills will be applied and honed in class through discussion and writing. Students in this course are expected to be independent workers who function at a college level. Finally, there is an extensive and required summer reading and writing assignment. (AP examination is required.) *Fulfills English III Credit (class of 2020 - 2023)*

Level 0            1 Credit  
Prerequisite:    English II and teacher recommendation

**\*Senior English offerings** are comprised of two college preparatory, full year courses and/or six half year (semester) courses. Students must register for either of the full year courses or two semester courses, one of which must be a writing course. Each semester course is comprehensive and includes basic skills in English, but has a thematic emphasis in one area. The courses marked "AP" and "Honors" are designed for students who learn rapidly, have a command of basic language skills, and are willing to accept challenge. Though some courses offer greater challenge and are designed for students whose goal is higher education, any individual with the interest and desire to succeed may, with departmental approval, elect any course.

**AP English Literature and Composition** This full year senior course provides the opportunity for seniors to qualify for up to one semester of college credit at participating colleges. It requires consistent, strong effort while emphasizing the development of independent thought and mature habits of critical thinking. The course, consistent with the philosophy and goals of the English department, challenges students to read and to critically analyze poems, prose passages, novels, plays, and literary criticism. Students will develop essays based upon these readings. There is an extensive summer reading and writing assignment. (AP examination required) *Fulfills English IV Credit (class of 2020 - 2023)*

Level 0            1 Credit

Prerequisite: English III and teacher recommendation and/or AP teacher instructor / permission

**Honors College Writing** This full year senior English college preparation course is a seminar in academic writing with instruction in writing through interdisciplinary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics and style are stressed. Upon successful completion of the course, students can earn (3) three University of Bridgeport credits. *Fulfills English IV Requirement (class of 2020 - 2023)*

Level 1            1 Credit

Prerequisite: English III and teacher recommendation

**Senior Composition** A one-semester study of advanced writing skills for college bound seniors. Emphasis will be placed on the reinforcement and enhancement of the basic skills of the four major writing discourses: narrative/descriptive, cause and effect, argument, and expository. *Fulfills English IV Writing Requirement (class of 2020 - 2023)*

Level 2            .50 Credit

Prerequisite: English III

**Practical Literacy** This course for selected seniors provides students an opportunity to expand on skills necessary for effective comprehension and written communication. *Fulfills English IV Writing Requirement (class of 2020 - 2023)*

Level 3            .50 Credit

Prerequisite: English III

**Popular Literature** The semester course focuses upon the reading of popular literature. Through oral discussion and short written evaluations of modern short stories, poetry, drama, memoirs, and novels, the course encourages students to make connections, develop a greater sense of self, and enhance coping mechanisms in today's world. *Fulfills English IV Reading Requirement (class of 2020 - 2023)*

Level 2            .50 Credit

Prerequisite: English III

**Understanding the Media** This course focuses on an analysis of various media as sources of information and influence. The materials include television, film, newspapers, graphic novels, advertisements, photography, political ads, documentaries, movies, books and magazines. Students will further their analytical and writing skills. *Fulfills English IV Reading Requirement (class of 2020 - 2023)*

Level 3            .50 Credit

Prerequisite: English III

**Multicultural Literature** The focus of this course is the literature of Native American, Hispanic

American, African American and Asian American writers and international authors in translation. Students will read and discuss a variety of stories and poems and take part in class discussions about the literature. In addition, students' grades will reflect written responses and successful completion of essays, quizzes, tests, and oral presentations. *Fulfills English IV Reading Requirement (class of 2020 - 2023)*

Level 2 .50 Credit

Prerequisite: English III

**Shakespeare on Stage and Screen** More than any other playwright in the Western tradition, Shakespeare is celebrated for creating memorable dramatic characters and riveting plots, along with brilliant language and arresting stage techniques. In this half-year honors level course students will explore Shakespearean comedy and tragedy in the context of the era of the play along with modern adaptations of each play in an effort to understand how Shakespeare's themes have stood the test of time and still shape our world today. Students will read a variety of Shakespeare's plays and then analyze how modern films have adapted and maintained Shakespeare's original themes and characters. Throughout this course students will enhance their writing abilities, critical reading and thinking abilities, and speaking and listening skills as they work to decode Shakespeare's language and make connections across texts and times. *Fulfills English IV Reading Requirement when taken as a senior. Fulfills .5 Humanities Elective when taken as an underclassman. (class of 2020 - 2023)*

Level: 1 .50 Credit

Prerequisite: Teacher recommendation

**Journalism I, II, III, IV** As a half year elective, students will not only study the elements of journalistic writing, but also the elements of journalism. Students will differentiate these components and demonstrate their ability to apply them within a true journalistic presentation. *Fulfills Humanities Elective. (class of 2020 - 2023)*

Level 2 .50 Credit

Prerequisite: English II (teacher recommendation)

**Developmental Reading and Writing** This course is intended for students in need of Tier II or Tier III reading intervention as revealed by individual student performance on Common Formative and Benchmark assessments driven by Scientific Research-Based Interventions (SRBI). Students are placed in either a Tier II or Tier III reading subset, respective to assessment scores, and receive additional skill-based support designed to reinforce curriculum standards in reading and writing. Tier II provides support two (2) days per week in addition to the required full year English course. Tier III provides three (3) days of support per week in addition to the required full year English course. *Fulfills Humanities Elective (class of 2020 - 2023)*

Level 3 .25/.25 Credit

Prerequisite: English department recommendation

**Writing Workshop** This half-year course for freshmen introduces various modes of writing including narrative/descriptive, expository, argument and analytical research. Students are instructed in the writing process from topic sentences to paragraph construction to multiple paragraph essays. Grammar, mechanics and style are emphasized with daily exercises and peer editing and revising. *Fulfills Humanities Elective (class of 2020 - 2023)*

Level 2 .50 Credit

Prerequisite: Teacher recommendation

**Graphic Novel** This course will focus on the writing style, art form, and technical aspects of creating a graphic novel. You will learn the art of telling a story through storyboards and arcs. Also, you will

learn to analyze and critique graphic novels as more traditional literary texts. Finally, the course will analyze graphic novels known for dealing with social and cultural issues. *Fulfills Humanities Elective (class of 2020 - 2023)*

Level 2 .50 Credit

Prerequisite Grades 10 and 11. \*\*\* Seniors may take course, but it does not count towards their English graduation requirement\*\*\*

**Gothic and Fantasy Literature** This course will explore the lasting popularity of the two genres as well as the evolution of the specific writing style of each. Students will examine the cultural trends and social events of the time period each text was written in and analyze how it influenced and or outright changed the style of the genre. *Fulfills Humanities Elective (class of 2020 - 2023)*

Level 2 .50 Credit

Prerequisite Grades 10 and 11 \*\*\* Seniors may take course, but it does not count towards their English graduation requirement\*\*\*

**Foundations in Research and Writing** Students will learn to use NoodleTools to research and write two expository essays and a persuasive paper. Students will learn to evaluate credible sources for research and to quote or paraphrase source information. Students will use the Noodle Tools to document their sources and create notecards and outlines for their paper. Students will be introduced to Modern Language Association (MLA) and American Psychological Association (APA) to format, create a source document such as a bibliography or Works Cited page and correctly use in-text references. Students will learn how to avoid charges of plagiarism through effective paraphrasing and citations. Over the half year course, writing skills such as thesis statements, topic sentences, transitions and writing effective sentences will be addressed. Students will also learn to write effective introductions and conclusions. The purpose of this class is to prepare students for the type of writing they will be doing in college. A student does not have to be a strong writer to take this course. All students will learn to be better writers through the writing process including writing multiple drafts, peer editing and one on one teacher conferences. *Fulfills Humanities Elective (class of 2020 - 2023)*

Level: Academic .50 credit

Prerequisites Grades 10 and 11 and successfully completed freshman English

## **WORLD LANGUAGE**

**Mandarin I** Students are introduced to the Chinese language, people and culture. Mandarin I is designed to give the student competence in the four basic language skills: speaking, listening, reading and writing. Students will develop speaking and listening skills within a classroom that focuses on immersion in the language as much as possible. Reading and writing in Chinese will progress more slowly due to the complexity of the written form. Activities, games and music will be conducted in Mandarin to give students a great, authentic experience about China and Chinese culture. The most important goal of this course will be to prepare students to function effectively in a Chinese language environment. *Fulfills World Language Requirement (class of 2020 - 2023)*

Level 2 1 Credit

**Mandarin II** This course is designed for those have taken Mandarin I. It aims at further develop speaking, listening, reading and writing in a more communicative context. All fundamental language skills will be emphasized and more aspects of Chinese culture will be introduced. Students participate actively in extended oral and written discourse, using compound and complex sentences to provide



information in a coherent and fluent manner. Students are expected to actively participate in class by engaging in interactive activities and reading and writing practices. *Fulfills World Language Requirement (class of 2020 - 2023)*

Level 2            1 Credit

**Mandarin III** In this course, students continue to build communication skills developed in Mandarin I and II. It is designed for students who are comfortable and confident with Chinese characters without the use of Pinyin. The course includes class discussions, and spontaneous speaking in authentic contexts. Students' tasks will include speaking and writing fluent Chinese with more grammatical accuracy, more challenging writing assignments. Students are expected to speak Chinese well enough to communicate with a native speaker on most common topics. *Fulfills Humanities Elective (class of 2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 1            1 Credit

**Spanish I** Students are introduced to the Spanish language, people, and culture. Spanish I is designed to give the student competence in the four basic language skills: speaking, understanding, reading and writing. Emphasis is given to oral/aural comprehension. Students build their vocabulary and learn appropriate grammatical structures to enable them to use the language in everyday conversation. Instruction and class activities are conducted in Spanish as much as possible. Students will experience a taste of various Hispanic cultures through activities, authentic music and games. Cultural differences and similarities will be highlighted. *Fulfills World Language Requirement (class of 2020 - 2023)*

Level 2            1 Credit

**Spanish II** Students continue their efforts to master the goals of understanding, speaking, reading and writing in the target language. The target language is used both by the teacher and student to a greater extent. Basic commands and instructions are given in the target language, and students are expected to use the target language whenever possible. Classroom instruction is designed to increase the ability to communicate in a second language through involvement in communication tasks. Classroom instruction includes reading, writing, listening, and speaking skills. A grade of B or better in grade 8. *Fulfills World Language Requirement (class of 2020 - 2023)*

Level 2            1 Credit  
Prerequisite: Spanish I

**Spanish III** This course encourages students to continue their journey to fluency in Spanish by focusing on the music, history, literature and products of the Spanish-speaking world. Students will continue to acquire vocabulary and structure to discuss- everyday topics, not only in the present tense but also in the preterite, imperfect and future tenses and in the subjunctive mood. Literature and literary analysis take on a more important role as students read various authentic materials to improve their literacy and to enable them to more fully appreciate the perspectives and perceptions of Spanish speaking peoples. *Fulfills Humanities Elective (class of 2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 1            1 Credit  
Prerequisite: Spanish II

**Spanish IV** This course is designed to help students achieve mastery of the four modalities. Emphasis continues to be placed on speaking and understanding but more importance is placed on reading and interpreting authentic literature, viewing and critiquing artwork, and forming opinions and expressing those opinions coherently. All instruction is done in Spanish and students are encouraged to speak only Spanish during class. In addition, students prepare for advanced study at



the college level. *Fulfills Humanities Elective (class of 2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 1                      1 Credit

Prerequisite: B or better in Spanish III and/or teacher recommendation

**Spanish V/Heritage Speakers** This course is designed for students for whom Spanish is their native or heritage language, and students who have excelled in Spanish 4. It provides students with the opportunity to expand their existing oral proficiency in an academic context and develop their reading and writing skills. Spelling, pronunciation and vocabulary development are stressed. Emphasis will be placed on usage appropriate to academic and professional settings. *Fulfills Humanities Elective (class of 2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 1                      1 Credit

Prerequisite: A native or heritage speaker of Spanish, B or better in Spanish IV and/or teacher recommendation

### **ENGLISH AS A SECOND LANGUAGE**

**ESOL I (English for Speakers of Other Languages)** This course is designed to explore the development of basic communication skills (speaking, understanding, reading, writing) with emphasis on pronunciation, intonation and spelling, vocabulary acquisition, grammar, and language related to daily living. Appropriate placement is for students who have been living in the U.S for less than one year. *Fulfills Humanities Elective (class of 2020-2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 3                      .50/.50 Credit

**ESOL II (English for Speakers of Other Languages)** This course continues the development of basic grammar and communication skills and emphasizes comprehension of different literary forms. *Fulfills Humanities Elective (class of 2020-2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 3                      .50/.50 Credit

**ESOL III (English for Speakers of Other Languages)** Students concentrate on academic reading and writing in addition to the study of advanced grammar and vocabulary. *Fulfills Humanities Elective (class of 2020-2023) or Career/Life Skills Credit (class of 2020-2022)*

Level 3                      .50/.50 Credit

### **MUSIC**

**Band I, II, III, IV** Open to all students with a sincere interest in playing a band instrument: (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, and percussion). Students are required to fulfill all rehearsal and performance obligations associated with membership for school, community, and athletic events. These events often occur outside of normal school hours. This course may be repeated yearly for credit, at the discretion of the teacher. Students electing to take band as an honors class will complete a mini-independent study each marking period to fulfill that honors component. *Fulfills Humanities Elective (class of 2020-2023) or Fine Arts Credit (class of 2020-2022)*

Level 2            1.25 Credits

Level 1            1.25 Credits

Prerequisite: Teacher recommendation for Band II, III, IV

**Chorus I, II, III, IV** Open to all students who are interested in singing a wide variety of music in an ensemble setting, regardless of prior experience. Students are required to perform at various school and community functions throughout the school year, often outside normal school hours. This course may be repeated yearly for credit at the discretion of the teacher. Students electing to take chorus as an honors class will complete a mini-independent study each marking period to fulfill the honors component. *Fulfills Humanities Elective (class of 2020-2023) or Fine Arts Credit (class of 2020-2022)*

Level 2            1 Credit

Level 1            1 Credit

Prerequisite: Teacher recommendation for Chorus II, III, IV

**Introduction to Classical Piano I** This course is open to all students who have an interest in learning the basics of piano performance and music theory. Prior experience is not required. *Fulfills Humanities Elective (class of 2020-2023) or Fine Arts Credit (class of 2020-2022)*

Level 2            .50 Credit

**Introduction to Classical Piano II** This course is a continuation of Introduction to Class Piano I and is a more in-depth exploration of piano performance, along music theory, and music history. *Fulfills Humanities Elective (class of 2020-2023) or Fine Arts Credit (class of 2020-2022)*

Level 2            .5 Credit

Prerequisite: Completion of Introduction to Class Piano I or 1 year of private piano study

**Independent Study in Music** This course is open to any instrumental music student with 2 or more years of musical training. (private lessons, participation in band or chorus) Taking a more holistic approach, it will include the study of music theory and music history. All students are considered members of the AHS Band or Chorus and are required to fulfill all performance obligations associated with those courses. *Fulfills Humanities Elective (class of 2020-2023) or Fine Arts Credit (class of 2020-2022)*

Level 1            1 Credit

Prerequisite: Teacher recommendation

## **SOCIAL STUDIES**

**Global History I & II** Global History is a record of the adventures of man. It deals with significant people and events, broad historical concepts and geographical themes. In today's fast-paced world, the study of global history provides the continuity that helps us understand the past and recognize its contribution to the present and the future. This course covers early European civilizations through World War I. *Open to Freshman Academy only. Fulfills Social Studies Credit (class of 2023)*

Level 2            .50 / .50 Credit

**Civics and Government** This half year course will cover the writing and everyday application of the U.S. Constitution. Students will be taught the rule of law, and the value of liberty and equality in relation to local, state, and national decisions. This is a required course for graduation. *Fulfills Civics / Government Requirement (class of 2020-2022)*

Level 1	.50 Credit
Level 2	.50 Credit

**Civics II** Students will learn the economics and financial works of government, business, and the American economy. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 2	.50 Credit
Prerequisites	Successful completion of Civics and Government

**United States History** A required course for juniors (and for graduation), this course is the study of the political, economic, and social history of the United States from the Civil War through World War II. A research paper and/or project may be required of all level one students. *Fulfills US History Requirement (class of 2020-2022)*

Level 1	1 Credit
Level 2	1 Credit

**ECE/AP U.S. History** This course surveys political, economic, social and cultural developments throughout American History. This full year course encourages students to further develop their writing and analytical skills. Emphasis is placed on interpreting primary sources for a deeper connection to historical issues. As a UConn ECE Course, students have the potential to earn six (6) UConn college credits pending completion of course requirements. There is no charge for Ansonia students dual enrolled with UConn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills US History Requirement (class of 2020-2021)*

Level 0	1 Credit
---------	----------

**Current American History** Students will delve into the Cold War and analyze its national and international impact. The economy, environment, and military conflicts (such as the Vietnam Conflict) will be emphasized. US History is a prerequisite; however, this course is available to seniors and juniors. *Fulfills Social Studies or Humanities Elective (class of 2020-2021)*

Level 2	.50 Credit
---------	------------

**Sociology I** This course seeks to explore, define, and analyze society's foundations and functions. Students will evaluate U.S. society and make a global connection to other cultures. This one-semester course is available to seniors and juniors. *Fulfills Social Studies or Humanities Elective (class of 2020-2021)*

Level 2	.50	Credit
---------	-----	--------

**Sociology II** This course focuses on the changing roles of adolescents and adults in society based on cultural influences. *Fulfills Social Studies or Humanities Elective (class of 2020-2021)*

Level 2	.50 Credit
Prerequisite	Successful completion of Sociology I

**ECE Modern Western Traditions** This course is an overview of some of the major developments of western civilization from antiquity through the modern era. Our broad objective is to consider our indebtedness to the achievements of people of the past, and, our place on the historical continuum. The student will become someone who can read history intelligently. As a UConn ECE Course, students have the potential to earn six (6) UConn college credits pending completion of course requirements. There is no charge for Ansonia students dual enrolled with UConn for the 2019-2020 school year. *Fulfills Social Studies or Humanities Elective (class of 2020-2021)*

Level 0	1 Credit
---------	----------

**Interdisciplinary World Culture** Taken simultaneously with Interdisciplinary Art, this half year course highlights various world cultures and the lands they inhabit. Focus is placed on the themes of

location, place, regions, movement, and human-environment interaction. This thematic study will also be the springboard for the application of artistic exploration and depiction of each culture. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 2 .50 Credit

Prerequisite: Art and Social Studies, Teacher Recommendation

**World Cultures Foundations** This half year history course enhances students knowledge of geography, the physical world, climates and population centers in the Western Hemisphere. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 2 .50 Credit

**World Cultures International** This half year history course allows students to explore and investigate many different world cultures and geographic areas. The goal of world cultures is to have students link physical geography with cultural implications. This course will explore the existence and interdependence of cultural and economic connections and improve student's global awareness. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 2 .50 Credit

**Law-History** Law is a half year course that provides a solid foundation in the understanding of legal issues encompassing the core topics of law integrated with personal law topics. The course will cover information such as the basis of law, problems in society, court systems, crime and criminals, Constitutional law, and additional topics. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 1 .50 credit

Level 2 .50 credit

**Criminal/Juvenile Justice** This half year course engages students in the studies of criminal law and the juvenile justice system. This course will focus on crime in America and the criminal justice process. Students will gain an understanding of the fundamental principles of our system of law, including the roles of lawyers and law enforcement officers. This will help promote a positive attitude toward law and order and its impact on society. *Fulfills Social Studies or Humanities Elective (class of 2020-2022)*

Level 2 .50 Credits

**AP Psychology** This senior elective Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. *Fulfills Social Studies or Humanities Elective (class of 2020-2021)*

Level 0 1 Credit

**Political Science-** Political Science is an introductory course on the mechanics of the U.S. political system. In this course, students will examine the foundational components of American politics, including the Constitution, federalism, civil rights and civil liberties; the formal institutions of the federal government: Congress, the presidency, the bureaucracy and the judiciary; and the diverse ways in which citizens influence the political process. Upon successful completion of the course, student can earn (3) three University of Bridgeport credits. *Fulfills Social Studies or Humanities Elective (class of 2020)*

Level 1            1.0 Credit

Prerequisite: Senior with an overall B average, including a B or better in U.S. History, and/or department recommendations

### **MATHEMATICS**

**Algebra I** This course is the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. *Fulfills Math Requirement (class of 2020-2023)*

Level 1            1 Credit

Level 2            1 Credit

**ALGEBRA I Part A** This course is the first of two courses that investigates the fundamental ideas of algebra upon which all future study of mathematics depends. Students will study linear equations, inequalities and functions. Using technology, students will also apply algebraic concepts to the solution of real-world problems. This course is designed for students who need additional time to continue to develop proficiency with mathematical concepts studied in middle school, and additional time to continue to develop their problem solving and critical thinking skills. *Fulfills Math Requirement (class of 2020-2023)*

Level 3            1 Credit

Prerequisite: Teacher recommendation only.

**ALGEBRA I Part B** Algebra 1 B will investigate the fundamental ideas of algebra upon which all future study of mathematics depends while also uncovering fundamental geometry standards. In Algebra 1 B, students will write equations of lines, simplify exponential and radical expressions, and add/subtract/multiply/factor quadratic expressions. Using technology, students will also apply algebraic concepts to the solution of real-world problems. Geometry concepts will consist of volume of a shapes, applying properties of triangles to determine side length and angle measure, apply properties of circles to measure arc length and area, and solve problems with sine, cosine, and tangent. *Fulfills Math Requirement (class of 2020-2023)*

Level 3            1 Credit

Prerequisite: Successful completion of Algebra I A, or its equivalent, and teacher recommendation.

**Geometry** This course grouping, emphasizing an abstract, formal approach to the study of geometry, typically includes topics such as: properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. *Fulfills Math Requirement (class of 2020-2023)*

Geometry: Grade 9

Level 1            1 Credit

Prerequisite: 80 or higher  
in Algebra I AND teacher rec

Geometry: Grade 10

Level 1            1 Credit

Prerequisite: 80 or higher  
in Algebra I AND teacher rec

Geometry: Grade 10

Level 2            1 Credit

Prerequisite: Algebra I

**Algebra II** Course topics are typically: set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. *Fulfills Math Requirement (class of 2020-2023)*

Level 1            1 Credit  
Prerequisite:    B or higher in Geometry and/or Teacher Recommendation

Level 2            1 Credit  
Prerequisite:    Successful completion of Geometry or Algebra 1A and 1B

**Applied Algebra and Geometry** This course combines the study of some pre-algebra and algebra topics with introductory geometry topics. Included is the study of formulas, algebraic expressions, first degree equations and inequalities, the rectangular coordinate system, area, perimeter, and volume of geometric figures, and properties of triangles and circles. *Fulfills Math Requirement (class of 2020-2023)*

Level 2            1 Credit  
Prerequisite:    2 years of math

**Pre-Calculus** This is a full year course is an extension of advanced algebra and geometry topics including linear, polynomial, rational, trigonometric, exponential and logarithmic functions and the application of these topics to real world situations. Upon successful completion of the course, student can earn (3) three University of Bridgeport credits. *Fulfills Math Requirement class of (2020-2023)*

Level 1            1 credit  
Prerequisite:    B or higher in Algebra II and/or Teacher Recommendation

Level 2:           1 credit  
Prerequisite:    Successful completion of Algebra II

**AP Calculus** This course includes the study of derivatives, differentiation, integration, the definite and indefinite integrals, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis.) Upon successful completion of the course, student can earn (3) three University of Bridgeport credits. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*

Level 0            1 Credit  
Prerequisite:    Pre-Calculus and teacher recommendation

**Statistics** This course covers three main topics: data analysis/regression, survey and experimental design, and probability. Students will focus on expressing solutions numerically, visually, and verbally. Completion of a series of investigational tasks involving real world situations along with conducting two extensive surveys and/or experiments are major components of this course. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*

Level 2            1 Credit  
Prerequisite      Successful completion of Algebra II

**AP/ECE Statistics** This Advanced Placement course covers four main topics: data analysis/regression, survey and experimental design, probability, statistical inference. Students will focus on expressing solutions numerically, visually, and verbally. Completion of a series of investigational tasks involving real world situations along with conducting two extensive surveys and/or experiments are major components of this course. As a UCONN (ECE) course, students have the opportunity to receive four (4) UCONN credits pending completion of course requirements. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*



Level 0            1 Credit

Prerequisite: B or better in Algebra II or Grade 10 with department approval

**Introduction to Computer Science:** Introduction to Computer Science introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, Computer Science prepares students for college and career. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*

Level 2            1 credit

Prerequisite: C or higher in Algebra I and/or Teacher Recommendation

**AP Computer Science** This Advanced Placement course is designed to introduce students to computer programming. Students will be exposed to topics that include algorithms, data structures, design and abstraction. The course makes use of JAVA and JAVA Libraries to write computer code. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*

Level 0            1 Credit

Prerequisite: 80 or better in Algebra II or teacher recommendation

**Achievement Math** This course serves as an SRBI support. It consists of two types of interventions, Tier II and Tier III. Students in Tier II intervention meet twice a week to support math being taken concurrently within another full year course and to support homework completion and skills. Within Tier III, students meet three times a week to fill individual skill gaps that will enhance numeracy, graphing, solving, and arithmetic skills. This course is also taken in conjunction with the regularly scheduled, full year math course. *Fulfills STEM elective (class of 2020-2023)*

Level 3            .25 Credit

Prerequisite: Teacher recommendation and class benchmarks

## **SCIENCE**

**General Science** This course is an introductory course encompassing several branches of science. It examines the concepts of chemistry, physical science, and ecology. Providing a foundation for all future science courses. A variety of instructional strategies and hands-on activities result in an understanding of the dynamic nature of our planet. Open to Freshman Academy only. *Fulfills Science Requirement (class of 2023)*

Level 2            1 Credit

**Biology** A survey course designed to gain a broad understanding of the fundamental themes of biology, including: biochemistry, the interaction of living things, the evolution of life, the cell theory, cell structure, patterns of heredity, evolution, and levels of organization. Students apply techniques of scientific discovery while developing a variety of laboratory skills. *Fulfills Science Requirement (class of 2020-2022)*

Level 2            1 Credit

**Honors Biology** This course provides a more comprehensive, in-depth organized around the intricate themes of biology, including: biochemistry, the interaction of living things, the evolution of life, the cell theory, cell structure, patterns of heredity, evolution, and levels of organization. Students apply



techniques of scientific discovery while developing a variety of laboratory skills. *Fulfills Science Requirement (class of 2020-2022)*

Level 1            1 Credit

Prerequisite: Teacher recommendation, B or better in Algebra I and B or better in general science. Summer reading packet is required.

**ECE/AP Biology** This is a college-level biology course, designed to meet the rigorous standards of the AP program. Accordingly, the workload is considerable and includes: completion of summer assignments, investment in out-of-school study, daily homework, research papers, and twelve AP Biology Labs and dissections. The course will have an additional three lab period in each class cycle. The three major fields of exploration include molecules and cells, heredity, physiology, and evolution. As a UConn (ECE) course, students have the opportunity to receive four (4) UCONN credits pending completion of course requirements. There is no charge for Ansonia students dual enrolled with UConn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Math Requirement or STEM elective (class of 2020-2023)*

Level 0            1.50 Credit

Prerequisite Teacher recommendation; B or better in general science, B or better in Geometry, currently enrolled in Algebra II; recommended concurrent enrollment in AP Statistics

**Introduction to Forensic Science** This is an introductory course designed for students interested in learning the principles of crime scene investigations, documentation of crime scenes, the collection, preservation, and identification of evidence, latent print processing, bloodstain pattern interpretation, and DNA analysis. During the course, students will work a mock crime scene and present the evidence to fellow classmates and instructors as a class project. *Fulfills STEM elective (class of 2020-2021)*

Level 2            .50 Credit

Prerequisite: Grade 11-12 students with a C+ or better in Biology, teacher recommendation, and/or concurrent enrollment in Chemistry

**Anatomy and Physiology** This is a comprehensive advanced biology course in human anatomy and physiology covering histology, organ systems, structure and function, and practical lab dissections using preserved specimens. It is highly recommended for seniors planning careers in medicine, nursing, physical therapy, and/or the allied health fields. *Fulfills Science Requirement or STEM elective (class of 2020)*

Level 1            1 Credit

Prerequisite: Teacher recommendation, OR Grade 12 students that successfully passed Honors Biology and Chemistry or concurrently enrolled in Chemistry

**Chemistry (plus Lab)** This course is offered to all students who have successfully completed a biology course with a C or better. The course covers modern atomic theory, the periodic table, types of chemical reactions, gas laws, organic chemistry, acid/base chemistry and electro-chemistry within the context of real-world applications. Students also develop analytical skills through laboratory experiments within an additional lab period. *Fulfills Science Requirement or STEM elective (class of 2020-2022)*

Level 2            1.25 Credit

Prerequisite: Biology and Algebra 1 with a C or better and teacher recommendation

**Honors Chemistry (plus Lab)** This is a comprehensive course on modern chemical theory offered to junior and senior students. The course covers modern atomic theory, stoichiometry, the periodic table, acid/base reactions, gas laws, solutions and types of chemical reactions. Students also develop analytical skills through inquiry based laboratory experiments within an additional lab period. *Fulfills*

*Science Requirement or STEM elective (class of 2020-2022)*

Level 1            1.25 Credits

Prerequisite: Grade 11 and 12 students with a B or better in Algebra 1 and Honors Biology or teacher recommendation.

**ECE/AP Chemistry (plus Lab)** This course is designed as the equivalent to General Chemistry I and II usually taken by STEM majors during the first year of college. Students seek to attain a depth of understanding of fundamentals and competency in dealing with chemical problems. Topics covered include: structure of matter, states of matter, reactions, physical and analytical chemistry, with and emphasis on laboratory experience. As a UConn (ECE) course, students have the opportunity to receive eight (8) UConn credits. Students have the potential to earn 4 UConn college credits per term pending completion of course requirements. There is no charge for Ansonia students dual enrolled with UConn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 0            1.50 Credits

Prerequisite: Grade 11 and 12 students with a B or better in Algebra II plus Honors Biology and teacher recommendation.

**Honors Physics (plus Lab)** A study of natural physical phenomena. This course runs with regularly scheduled laboratory periods and is designed to give an overview of the physical concepts and insight into relevant areas of kinematics, dynamics, gravitation, energy, momentum, thermodynamics, and wave motion. Special emphasis is placed on the mathematical and technical applications. The Lab component focuses on written lab reports where outcome, protocol, data charts, graphs, and conclusions support the stated objectives. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 1            1.25 Credits

Prerequisite: C or better in Algebra II or teacher recommendation. Recommend Pre-Calculus taken concurrently.

**ECE/AP Physics (plus Lab)** This course is a college level physics course designed to meet the standards of both the Advanced Placement Physics A Program and UCONN ECE Program requirements. It is equivalent to taking two semesters of Algebra-based Physics in college. Topics in this course include: Newtonian mechanics, fluids, and thermodynamics (heat and gases, simple harmonic motion, waves, electricity and magnetism, optics, quantum effects, and nuclear). Lectures include a demonstration of the physical phenomena under discussion. The Lab component focuses on written lab reports where outcome, protocol, data charts, graphs, and conclusions support the stated objectives.

In addition to the above description, there are two extra lab periods each week and a final exam administered from UConn. As a UCONN (ECE) course, students have the opportunity to receive eight (8) UCONN credits pending completion of course requirements. There is no charge for Ansonia students dual enrolled with UConn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 0            1.50 Credits

Prerequisite: Successful completion of Honors Chem., Pre-Calc., and /or teacher recommendation

**Integrated Science: Bio-Life Systems** This course integrates all core science areas and engages students in hands-on exploratory activities that allow students to see the connection between science knowledge and real world applications. This course is intended for juniors and seniors who plan to attend a community-technical college or enter the workforce. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 3 .50 Credit

**Integrated Science: Earth-Space Systems** This course integrates all core science areas and engages students in hands-on exploratory activities that allow students to see the connection between science knowledge and real world applications. This course is intended for juniors and seniors who plan to attend a community-technical college or enter the workforce. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 3 .50 Credit

**Environmental Science** The goal of this course is to provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, to evaluate the relative risks and thereby explore and directly examine alternative solutions for resolution and future prevention. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 2 1.00 Credit

**ECE/AP Environmental Science plus Lab (Class will run every other year, opposite ECE Intro to Oceanography)** The goal of this course is to provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, to evaluate the relative risks and thereby explore and directly examine alternative solutions for resolution and future prevention. Summer assignments along with demands outside of the regular classroom setting are consistent with AP requirements. A weekly laboratory component is additional to the regularly scheduled class period. As a UConn (ECE) course, students have the opportunity to receive three (3) UConn credits pending completion of course requirements. There is no charge for Ansonia students dual enrolled with Uconn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 0 1.50 Credits

Prerequisite: B or better in AP, Honors or Regular Biology; C or better on Chemistry or concurrently enrolled in either AP or Honors Chemistry and B or better in Algebra 1

**ECE Introduction to Oceanography (Class will run every other year, opposite AP/ECE Environmental Science)** This course covers the processes governing the geology, circulation, chemistry and biological productivity of the world's oceans. Emphasis is placed on the interactions and interrelationships between physical, chemical, biological and geological processes that contribute to both the stability and the variability of the marine environment. As a UConn ECE course, students have the opportunity to receive three (3) UCONN credits. There is no charge for Ansonia students dual enrolled with Uconn for the 2019-2020 school year. Pending state approval, if there is no monetary charge for the AP exam, AP Exam is required. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 0 1.00 Credits

Prerequisite: B or better in AP, Honors or Regular Biology; C or better on Chemistry or concurrently enrolled in either AP or Honors Chemistry and B or better in Algebra 1

**Marine Biology** This is an introductory course offered for students interested in learning the principles of marine biology including the study of seawater chemistry, oceanography, marine biomes and environmental impacts of pollution on the oceans. During the course, students will complete projects that will test seawater, compare marine biomes and discover the remediation of a specific human impact on our marine environment. Labs include microscopic and macroscopic examination of plankton, sand, seaweed and small invertebrates. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

of 2020-2023)

Level 2 .50 Credit

Prerequisite: Grade 11-12 students with a C+ or better in Biology, teacher recommendation, and/or concurrent enrollment in Chemistry

**Astronomy** This is an introductory course offered for students interested in learning the principles of astronomy including the formation of the solar system, star composition, extra-solar planets, galaxies and the technology behind the study of stars. During the course, students will complete projects related to the historical context of studying stars in differing cultures, examining light spectra from stars, constructing a simple telescope, comparing visible light, IR, UV, X-Ray and radio data and describing present NASA missions. Optional observation nights will allow students to make their own stellar and planetary observations. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 2 .50 Credit

Prerequisite: Grade 11-12 students with a C+ or better in Biology

**Microbiology** is a half-year course designed to give a basic foundation to students who are interested in pursuing a health-related career. Primary emphasis in this course will be on developing an understanding of the physiology of microbes and their interactions with other organisms. The course will help students explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. *Fulfills Science Requirement or STEM elective (class of 2020-2023)*

Level 2 .50 Credit

Prerequisite: C or better in Biology

### **PHYSICAL EDUCATION AND HEALTH**

**Physical Education** As part of the freshmen and sophomore core program, students will be offered one semester per year. Emphasis will be placed on physical fitness activities, including muscle strength and endurance, flexibility, and aerobic development. Team activities will be introduced with special attention to skill development. Two semesters are required for graduation. *Fulfills PE requirement (class of 2020-2023)*

Grade 9

Level 3 .50 Credit

Grade 10

Level 3 .50 Credit

**Personal Health** In this course students gain an understanding of the physiological, sociological, and psychological concepts of “self”. The effects of peer pressure, drugs, alcohol, tobacco and sexually transmitted diseases are studied as they affect development. Assuming responsibility for one’s action and holistic health are emphasized. *Fulfills Health requirement (class of 2020-2023)*

Level 2 .50 credit

**Personal Health II** - \*Anticipated for the class of 2023

Grade 11 or 12

Level 3 .50 credit

**Physical Education Elective - Advanced Personal Fitness** As part of the junior and senior core program, students will be offered a one semester advanced course that focuses on improving and maintaining personal health and fitness. Emphasis will be placed on routine participation in cardiorespiratory endurance, muscular strength and endurance, and flexibility physical fitness activities. *Fulfills elective credit (class of 2020-2023)*

Level 2 .50 Credit  
Prerequisite: Grade 11-12

**Physical Education for Lifetime** Students will be scheduled for a semester physical education class. The curriculum will provide students with opportunities to elect activities from a variety of team, lifetime, and/or fitness related activities. The physical education staff will determine which activities are offered within the semester. *Fulfills elective credit (class of 2020-2023)*

Level 2 .50 Credit  
Prerequisite: Must have a A or B in previous Physical Education courses.  
If grade is lower than a A or B in previous Physical Education courses,  
teacher approval is required.

**Family Life** This one semester course for juniors and seniors includes the development of a positive self-image and an understanding of individual responsibility and their impact on the interpersonal relationships in the family unit. Family structure, family planning, and an awareness of family and individual role-modeling and stereotyping are presented. *Fulfills Life Skills Credit (class of 2020-2022) or elective credit (class of 2020-2023)*

Level 2 .50 Credit

### **CAREER AND TECHNICAL EDUCATION** **CULINARY**

**Foods I** This is an introductory course that covers nutrition, health and sanitation, food guides and kitchen safety. Basic cooking skills are emphasized within numerous group labs. *Fulfills Career / Life skills (class of 2020-2022) or Humanities elective (class of 2020-2023)*

Level 2 .50 Credit

**Foods II** This course reinforces basic cooking skills and exposes students to commercial cooking applications. Menu preparation using the Food Pyramid Guide, individual projects in food-borne illnesses, food franchises, and consumerism are studied. Group and individual labs are utilized. *Fulfills Career / Life skills (class of 2020-2022) or Humanities elective (class of 2020-2023)*

Level 2 .50 Credit  
Prerequisite: Culinary I

**Introduction to Professional Cooking** This course will acquaint the student with the many careers in Food Service. The student will learn how to cook for larger groups. The student will also learn about serving, inventory control, pricing presentation, nutritional content, and be well versed in food sanitation and health. *Fulfills Career / Life skills (class of 2020-2022) or Humanities elective (class of 2020-2023)*

Level 2 1 Credit  
Prerequisite: Culinary II and teacher recommendation

### **CAREER AND TECHNICAL EDUCATION**

## **BUSINESS AND FINANCE TECHNOLOGY**

**Business Law** This half-year course provides junior and senior students the opportunity to explore how the law governs daily activities as individuals function as consumers, employees, employers, and owners. The curriculum includes case studies, mock trials, role playing, and discussions. Topics will include the legal system, contract law, consumer law, crimes, civil wrongs, and personal ownership. Legal and ethical considerations will be explored. (May be co-taught within the Social Studies Department). *Fulfills Career / Life skills (class of 2020-2022) or Humanities elective (class of 2020-2023)*

Level 2            .50 Credit

**Business Editing and Publishing I** Students enrolled in Business Editing and Publishing will study writing, communication, and the business of publishing. Students will be exposed to reporting, advertising, design, and the functions of business. Students will develop their reading, writing, speaking, and listening skills. They will gain practical experience publishing small documents such as donation letters, thank you letters, posters and banners as well as Lavender, the AHS Yearbook. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1            1 Credit  
Level 2            1 Credit  
Prerequisite      Junior year

**Business Editing and Publishing II** Students will continue to develop and enhance previously learned skills from Business Editing and Publishing I. Students will be held responsible for reporting, advertising, design, and the functions of business. Students will continue to develop their reading, writing, speaking, and listening skills. They will gain practical experience publishing small documents such as donation letters, thank you letters, posters and banners as well as Lavender, the AHS Yearbook. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1            1 Credit  
Prerequisite      Business Editing and Publishing I and must be a senior

**The Business of Sports and Entertainment** This half-year course is designed for students interested in the business of sports, entertainment, and event planning. Emphasis is placed on the following principles as they apply to the industry: branding, licensing and naming rights; business foundations; concessions and on-site merchandising; economic foundations; promotion; safety and security; and human relations. This course includes simulations, projects, and teamwork activities that provide opportunities for students to apply Career and Technical Education State competencies and Common Core State Standards. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 2            .50 Credit

**Computer Applications I** Students are introduced to basic computer skills. Students will utilize skills obtained in Computer Applications to meet the increasing demands of technology. Students will be introduced to Microsoft Word, Excel and PowerPoint. Students will also be exposed to Digital Citizenship and introduced to Computer Science. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 2            .50 Credit

**Computer Applications II** Students will use existing word processing skills to enhance formatting techniques. Desktop publishing software will be utilized to create newsletters, flyers, and brochures. Presentation software will be introduced. Students will use research skills and the Internet to incorporate findings into a Microsoft Office 2016 Program. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*



Level 2 .50 Credit  
Prerequisite: C or better in Computer Applications I

**Consumer Economics** This is a full year course that will teach students how to manage their personal resources by making informed choices in the marketplace. Students will become involved in decision-making, critical thinking, and cooperative learning. Students learn to become informed consumers while building career knowledge. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 3 1 Credit  
Prerequisite Junior or Senior

**HCC CCP Accounting I** This full-year Housatonic Community College course offers students the opportunity to earn (3) three HCC credits within its College Career Pathways (CCP) program. Business and personal applications will include introductory concepts, double entry accounting, and the accounting cycle. Each will be applied to services and merchandising, businesses organized as proprietorships, partnerships, and corporations. Accounting I provides a basis for students wishing to further their education in accounting, management, marketing, finance, government, computer-related fields, and business administration. For college credit, a student must pass HCC's final exam and pass the course with a C or better. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1 1 Credit  
Prerequisite: Junior or Senior with an overall B average or better and/or department recommendations

**HCC CCP Marketing** This is a full year Housatonic Community College course offers students the opportunity to earn (3) three HCC credits within its College Career Pathways (CCP) program. Students will study the scope and significance of marketing in contemporary American business with emphasis on marketing consumer goods and development of the essential elements of the marketing mix (price, product, place, and promotion) For college credit, a student must pass and submit the HCC Final Project and pass the course with a C or better. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1 1 Credit  
Prerequisite: Junior or Senior with an overall B average or better and/or department recommendations

**Entrepreneurship** This half-year course is designed for juniors and seniors who want to run their own business or are planning to further their education in business. Topics will include the business plan, types of ownership, market strategy, business financing, legal issues, management, and sales effort. Communication and leadership skills will be developed. Students will also be given the opportunity to explore careers in business. The knowledge acquired from this course will greatly assist young business owners in succeeding in their own business ventures. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 2 .50 Credit

**Personal Finance I** This half-year course for juniors or seniors is designed to inform students how individual choices directly influence occupational goals and future earning potential. Topics will include income, money management, spending and credit, as well as budgeting and saving. Students will design budgets, utilize checking and savings accounts, gain knowledge in finance, debt, and credit management, and evaluate and understand insurance and taxes. This course will provide a fundamental understanding for making informed personal financial decisions leading to financial independence. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*



Level 2            .50 Credit  
Prerequisite:    Junior or Senior

**Personal Finance II** This second Personal Finance course will help students prepare for their financial future by building on their financial management skills. Students will understand how a bank or financial institution functions as a business and the role it plays in the U.S. economy. Topics covered in Personal Finance II include banking, savings and investing, stocks, bonds, mutual funds, real estate planning, retirement/estate planning as well as risk management. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 2            .50 Credit  
Prerequisite:    Junior or Senior

**Advanced Computer Concepts** This is a full year dual enrollment advanced computer course in partnership with the University of Bridgeport. Advanced Computer Applications expands on knowledge acquired in Computer Applications I. Students review computer basics, file management, and application training. This course introduces appropriate terminology and concepts using hands-on training. Applications include word processing: Microsoft Word, spreadsheets: Microsoft Excel and Access, and presentation software: Microsoft PowerPoint. For college credit, students must meet the requirements identified by the University of Bridgeport. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1            1.0 Credit, 3.0 UB Credit  
Prerequisite:    Junior or Senior with an overall B average, including a B or better in  
Computer Applications 1, and/or department recommendations

**Foundations of Business** This is a full year dual enrollment introductory course to business in partnership with the University of Bridgeport. Students will gain a better understanding of what business is, how business works as well as which skills and functions are required to effectively operate a business. The course will focus on the environment of business, entrepreneurship, management, human resources, marketing, social media, e-business, accounting, finance, and the future dimensions of business opportunities in a global economy. For college credit, students must meet the requirements identified by the University of Bridgeport. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 1            1.0 Credit, 3.0 UB Credit  
Prerequisite:    Junior or Senior with an overall B average and/or department  
recommendation

**Global Business and Society** Students will gain a better understanding of international business and conducting business in the global economy. Students will develop the knowledge and skills to live and work in a global marketplace and a global society. Real-world applications, cross-curricular links, cultural influences, and an emphasis on international communication and trade documentation will strengthen students' global perspectives. *Fulfills Career / Life skills (class of 2020-2022) or Humanities or STEM elective (class of 2020-2023)*

Level 2            .50 Credit

**CAREER AND TECHNOLOGY EDUCATION**  
**TECHNOLOGY EDUCATION/PLTW**

**Graphic Arts Production: Digital Dark Room** This is a half year communication technology course that focuses upon print and electronic media. A hands-on course, it uses Adobe Creative Suite software. Students will create assorted graphic projects using Photoshop to modify photos and artwork. The major project will pull all elements of type and graphics together and will range from business cards to business letters and package design. *Fulfills STEM Requirement (class of 2020-2023)*

Level 2            1 Credit

Prerequisite    C or better in Computer Applications I

**Technology Education I** This hands-on, project driven, exploratory course is designed to introduce students to the roles, responsibilities, and requirements of engineering technology, the design/problem solving process, and the four major areas of technology. Components include industrial applications, processes, and impacts related to transportation, manufacturing, communication, and construction. Hands-on problem solving activities are integrated with interactive, direct instruction. *Fulfills STEM Requirement (class of 2020-2023)*

Level 2            1 Credit

**Technology Education II: Construction** The aim of Tech Ed II: Construction is to further develop the acquisition of skills, operations technology literacy, and problem-solving techniques within the context of woodworking. Course activities include individual and team projects, oral presentations while exploring elements of engineering systems, and hands-on construction projects. Power and energy systems will also be introduced as part of this course. *Fulfills STEM Requirement (class of 2020-2023)*

Level 2            1 Credit

Prerequisite    Technology Education I

**Introduction to Engineering Design (IED)** This initial Project Lead the Way (PLTW) course emphasizes the development of engineering design. Students use computer software to produce, analyze and evaluate models of project solutions. This course includes: Design Process, Adaptive Design Concepts, Understanding Modeling Calculations, Cost Analysis and Quality Control, Engineering Opportunities, and Portfolio Development. To receive college credit students must receive a 6 or greater on the End of Course Exam, earn a 70% average in the course, and submit the PLTW Credit Request Form with \$200 (fee subject to change) to The University of New Haven by December of year of completion. (PLTW Exam required) *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

**Principles of Engineering (POE)** In the second Project Lead the Way (PLTW) course, students are provided an overview of engineering and engineering technology. Students develop problem solving and critical thinking skills through hands-on project based learning. This course includes: Overview and Perspective of Engineering, Design Process, Communication and Documentation, Engineering Systems, Materials and Materials Testing, Thermodynamics, Engineering for Quality and Reliability, and Dynamics. To receive college credit students must receive a 6 or greater on the End of Course Exam, earn a 70% average in the course, and submit the PLTW Credit Request Form with \$200 (fee subject to change) to The University of New Haven by December of year of completion. (PLTW Exam required) *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisite:    Successful completion of IED or teacher recommendation and a minimum of B in Algebra I

**Aerospace Engineering** This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard

software. They also explore robot systems through projects such as remotely operated vehicles.  
(College Credit based on course grade and PLTW End of Course Exam) *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisites: IED, POE, or DE and Geometry or Instructor Approval

**Computer Science and Software Engineering (CSE)** CSE engages students in projects and problems to address the fundamental question: How do creative *abstraction and computational power change our lives?* Units to be covered include: Graphics, The Web, Data Mining, and Simulation. *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisite: B in Algebra I or teacher recommendation

**Digital Electronics (DE)** Digital Electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards and technical documentation. To receive college credit students must receive a 6 or greater on the End of Course Exam, earn a 70% average in the course, and submit the PLTW Credit Request Form with \$200 (fee subject to change) to The University of New Haven by December of year of completion. (PLTW Exam required) *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisite: Junior or senior and successful completion of POE or teacher recommendation

**Engineering Design and Development** This capstone engineering research course engages students in teamwork and time management skills to research, design, test and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide and help the team reach a solution to the problem. The team presents and defends their solution to a panel of reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous PLTW courses. To receive college credit students must first earn college credit in IED or POE. Currently EDD does not have an End of Course Exam. The course grade for EDD along with grades from IED and POE are considered in determining the University of New Haven grade for EDD. Students must submit the PLTW Credit Request Form with \$200 (fee subject to change) to the University of New Haven by December of year of completion. (PLTW Exam required) *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisite: Successful completion of IED, POE CSE or DE and teacher recommendation

**Solid Works \*ANTICIPATED\*** This course is an introduction to the principles of computer aided 3-D solid modeling and generating manufacturing drawings. This course is offered as a dual enrollment course in partnership with the Advanced Manufacturing Program at Housatonic Community College, and introduces students to standard computer based design processes and CAD software. Topics include: design intent and process, sketching techniques, model development techniques, process-specific modeling, design changes, editing models, patterning, and assembly techniques. Students will use the basic design, assembly, and drawing elements of SolidWorks to generate models of simple parts, assemblies, and to create fully dimensioned drawings. *Fulfills STEM Requirement (class of 2020-2023)*

Level 1            1 Credit

Prerequisite: Successful completion of IED and a minimum of B in Algebra I

**Blueprint Reading I \*ANTICIPATED\*** An initial course in Blueprint Reading, offered as a dual enrollment course, in partnership with the Advanced Manufacturing Program at Housatonic Community College. This course introduces students to blueprints and how they are used in industry. Students will be able to label and describe every part of a blueprint, understand the function of every type of line used, and understand terminology used in regards to prints. Topics include: layouts of blueprints, the different types of line and their uses, different features found on prints, orthographic projections, dimensioning and tolerances, auxiliary and section views, and geometric tolerance. *Fulfills STEM Requirement (class of 2020-2023)*

Level 1                      1 Credit

Prerequisite: Successful completion of IED, POE CSE or DE and Solid Works, and teacher recommendation

### **SPECIAL EDUCATION**

**Special Education: Supportive Resource Room** is a course designed for students who have Individualized Educational Plans and receive all academic coursework and grades from the regular education teachers. These students will receive a pass (P) or fail (F) grade and a .50 credit for each half year successfully completed in the Supportive Resource Room. Class work is based on the individual student's mainstream academic course load.

Pass/Fail                      .50 credit

**Special Education: Self-Contained Classroom** is available in English, Math, Science and History to special education student who have Individual Educational Plans. Self-Contained classrooms provide students with class instruction on a more individualized basis for students with varying levels of cognitive needs. Skills taught in each subject vary depending on the student's individualized goals and objectives.

Level 4                      1 Credit

**Transition Program: Vocational Education** is a full year course designed for sophomore, junior or senior students with disabilities who will be developing their vocational skills. Focus will be on career exploration, school to work skills, learning appropriate employee attitudes and behaviors, filling out forms and applications, budgeting and money management, as well as involvement in the local working communication.

Level 4                      1 Credit

**Transition Program: Pre-Vocational Education** is a full year course designed for freshmen, sophomores, and junior students with disabilities who need to develop pre-vocational skills for the world of work. Focus will be placed on increasing life skills necessary to be successful in the work environment. Students' needs and current vocational performance levels will be evaluated. Transition skills will be taught along with training for potential employment within the local community.

Level 4                      1 Credit

**Life Coach Assistant (LCA) Program** is a one semester course, offered twice yearly. *The program*

is available to selected regular education students who fill out an application and meet specific requirements. The program includes daily involvement with peer students who *have* significant disabilities and are enrolled in the Life Skills course. Responsibilities focus on assisting with the training of functional life skills as well as social/behavioral role modeling. Two project requirements; one community based, and one instructional assignment must be accomplished for successful completion of this program. For students who are interested in public service careers, this will be a valuable experience.

Pass/Fail .50 Credit  
Prerequisite Junior & Senior only with department approval, application, and interview

**Life Skills** is a full year course designed for significantly disabled students who need to focus on functional daily living skills as well as transitional vocational skills. Students' progress will be tracked on an ongoing basis to document and develop independent employability skills. Access to business establishments within the local community will be available as well as comprehensive involvement with peers, both in and outside of the classroom.

Pass/Fail 1 Credit

### **MISCELLANEOUS**

**Global Scholars** is a humanities course designed to provide students with an authentic learning experience through study abroad. In this course students will explore global issues, including issues of human rights, diversity, and culture. Participants will specifically focus on the culture (art, music, history and customs, etc) of the countries being visited on the abroad trip. Students will conceptualize, design, and present a substantial research project by providing a comprehensive introduction to research methods and approaches applicable to a diverse range of interdisciplinary research interests. *Fulfills Humanities elective (class of 2020-2023)*

Level 2: .50 Credits  
Prerequisite: Students must be enrolled on the Global Scholars trip in order to enroll. Class runs same semester as trip.

**School-to-Career Course for Student Office Interns** This course is designed to provide school-based and work-based learning in an office setting. Approved students will be placed in one of the school offices, the Main Office, the Guidance Office or the Media Center and will be taught work ethics and interpersonal and communication skills. They will also be introduced to general office procedures and will receive hands-on experience using office technology. *No student will earn more than one-half credit for office internship during his/her high school career.*

Pass/Fail .50 Credit

**Volunteer Program** This program is designed to encourage service/volunteerism as a meaningful part of one's life. One credit will be given during a student's high school career for 75/150 hours of volunteer work with an approved non-profit organization. Students must provide official documentation of hours volunteered on a yearly basis. (Forms available from the Guidance Office.)

Pass/Fail .50 Credit (75 hours) Pass/Fail 1 Credit (150 hours)

**Independent Study Option** Independent Study is designed to accommodate the motivated student desiring educational experiences beyond those offered in the curriculum or the student's present program of study. Independent study programs will not be approved for the purpose of making up previously failed courses. Specific rules/regulations for Independent Study Option are provided on the

application.

**Prerequisites for Participation:**

1. Obtain application form in the guidance office.
2. The Independent Study Option form must be signed by the student, teacher, or mentor, parent, counselor, and then the principal. One copy will be forwarded to the teacher and one copy will be on file in the guidance office.
3. The counselor will notify the teacher as soon as all approvals are obtained.
4. Teacher participation is voluntary.
5. The Independent Study Option form must be submitted for approval by the end of the second week of the semester.
6. Independent Study Option programs will not be used as a substitute for any course.
7. Specific curriculum must be implemented for all Independent Study courses that assign a numerical grade.

Pass/Fail .50 Credit

Pass/Fail 1 Credit

**Work Awareness** This semester based full year (1.00 credit) or half year (.50 credit) course is offered to seniors interested in career exploration. Students must be currently employed to qualify for participation; upon gaining enrollment as an employed individual, specific lessons and job related tasks will accompany required hours of employment. Students may be given early dismissal privileges, where appropriate, receive school credit, gain occupational experience, and earn substantiated wages. Credit is awarded per successful completion (PASS/FAIL) of each individual semester.

Pass/Fail .50 credit

Pass/Fail 1 credit

Prerequisite: Must show proof of employment and maintain employment

**NCAA Eligibility**

**Division I Initial Eligibility:** Division I schools require students to meet academic standards for NCAA-approved core courses, core-course GPA and test scores. To be eligible to practice, compete and receive athletics scholarships in their first full-time year at a Division I school, students must graduate from high school and meet ALL of the following requirements:

1. Complete a total of 16 core courses in the following areas:

English	Math (Alg 1 or higher)	Natural / Physical Science (including 1 year of lab if	Additional (English, Math or Natural / Physical Science	Social Science	Additional Courses ((Any area listed to the left, foreign
---------	------------------------	--	---	----------------	---



		offered)			language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

2. Complete 10 out of their 16 core courses, including seven in English, math or natural/physical science, before the start of the seventh semester. Once a student begins their seventh semester, they must have more than 10 core courses completed to be able to repeat or replace any of the 10 courses used to meet the 10/7 requirement. Students whose academic credentials are solely international (including Canada) are not required to meet the 10/7 requirement.

3. Complete the 16 NCAA-approved core courses in eight academic semesters or four consecutive academic years from the start of ninth grade. If students graduate from high school early, they still must meet core-course requirements.

4. Earn an SAT combined score or ACT sum score that matches their core-course GPA (minimum 2.300) on the Division I qualifier sliding scale.

**Division II Initial Eligibility:** Division II schools require college-bound student-athletes to meet academic standards for NCAA core courses, core-course GPA and test scores. To be eligible to practice, compete and receive an athletics scholarship in their first full-time year at a Division II school, students must graduate from high school and meet ALL the following requirements:

1. Complete 16 core courses in the following areas:

English	Math (Alg 1 or high)	Natural / Physical Science (including 1 year of lab if offered)	Additional (English, Math or Natural / Physical Science	Social Science	Additional Courses ((Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	2 year	2 years	4 years

2. Earn an SAT combined score or ACT sum score that matches the student's core-course GPA (minimum 2.200) on the Division II final qualifier sliding scale.

**Division III Initial-Eligibility Standards:** Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. Division III rules minimize potential conflicts between athletics and academics and focus on regional in-season and conference play. While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid.