

# PLAINFIELD HIGH SCHOOL 2019-2020 PROGRAM OF STUDIES

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**Dear Students:**

On behalf of the faculty and staff at Plainfield High School, it is my pleasure to present you with the Plainfield High School Program of Studies. We are proud of our course offerings and we believe that the variety of courses offered at Plainfield High School meets the needs of every student. Selecting an appropriate and challenging program of study is the highest priority at this time in your life.

Plainfield High School strives to foster the intellectual curiosity, creativity, and positive attitudes required for lifelong learning through varied and rigorous course offerings. The academics, arts, athletics, and varied extracurricular activities at Plainfield High School deliver everything one would expect from a comprehensive high school -and more! Combined with a dedicated staff, these programs bring together students whose talents, growth potential, individualism and dedication benefit and enrich the Plainfield High School community.

The 2019-2020 Program of Studies has been modified to reflect the recent school schedule change. The schedule (*see schedule on the following pages*) enables students to take eight credits of course work in the A/B Block schedule. The majority of classes will be one period, year-long courses, however, most A.P. courses are two periods long, meeting on a year-long basis. All will meet through an A/B sequence, maintaining consistency of a day on/day off schedule. This allows students to continue to accumulate up to eight credits per year. The shift to a year-long based schedule addresses concerns regarding continuity of instructional content and course sequencing, and the opportunity for percolation of information over a longer period of time. I am confident that students will continue to find academic success with the new schedule.

As you review the course offerings, you will notice a change in the course list format. The addition of new courses and new course levels has resulted in course numbers falling out of numerical sequence. The new course list format places Advanced Placement courses first, followed by Honors, College Prep and Academic level courses. My hope is that the new format is not too confusing to students and parents, however, if you have questions, please consult your guidance counselor.

This Program of Studies is a resource which describes the many courses offered at Plainfield High School. It will assist you in your pursuit of your high school diploma and your life's goals. Take the most challenging courses offered. The time and effort you spend in higher level courses will pay dividends when you graduate. The better prepared you are in high school, the more choices you will have when you graduate. Your goals and dreams may change, however, success in challenging and exciting courses will allow you to follow every future dream. Share the Program of Studies with your parents and/or guardians as you plan together for your high school years and beyond.

Please review the course selections carefully and make choices that will allow you to develop all of your talents and skills. Remember that Plainfield High School has dedicated and committed teachers, counselors and administrators who are available to assist you in the course selection process.

Have a great school year!

A handwritten signature in blue ink that reads "James C. Worth". The signature is written in a cursive style with a large, looped initial "J".

James C. Worth, Principal

## ***Mission Statement***

**The mission of Plainfield High School is to promote academic excellence and personal development. In conjunction with rigorous instruction and high expectations, we will work collaboratively with families and the community for our students to develop skills necessary to succeed in college or career choice, challenging them to become life-long learners and responsible, productive citizens.**

### **Academic Expectations:**

Students at Plainfield High School will:

1. Read, write, listen and speak for effective communication.
2. Use technology and other sources to gather, analyze, interpret and synthesize information effectively.
3. Demonstrate problem-solving and critical thinking skills.
4. Communicate artistically and creatively using a variety of artistic, musical and visual forms.

### **Social Expectations:**

Students at Plainfield High School will:

1. Demonstrate respect for themselves, others, diversity, and
2. property. Demonstrate punctuality, preparedness and engagement in school activities.
3. Demonstrate honesty, integrity and personal responsibility.
4. Appreciate the value of life-long physical fitness and good health.

### **Civic Expectations:**

Students at Plainfield High School will:

1. Participate in school and community activities.
2. Value the rights and responsibilities of a democratic society.

Plainfield High School is a mission driven school with specific academic, social and civic expectations of our students.

For your information, specific academic, social and civic expectations are listed next to each course in this Program of Studies. This indicates the academic, social or civic expectation that the course satisfies.

For example, AE 1, 2 and SE 1 means that the course satisfies academic expectation 1 and 2 and social expectation 1 as indicated above.

## **Plainfield High School Daily Schedule 2019-2020**

Block 1		7:20a-8:46a	86 min
	Passing		5 min
Block 2		8:51a-10:17a	88 min
	Passing		5 min
Block 3		10:23a-12:18p	116 min
A Lunch		10:23a-10:47a	25 min
B Lunch		10:55a-11:20a	25 min
C Lunch		11:52a-12:17p	25 min
	Passing		5 min
Block 4		12:23p-1:50p	84 min

## Plainfield High School 90 Minute Delay Schedule 2019-2020

Block 1		8:50-9:50a	60 min
	Passing		6 min
Block 2		9:56-10:58a	62 min
	Passing		6 min
Block 3		11:04a-12:44p	100 min
A Lunch		11:00a-11:25a	25 min
B Lunch		11:25a-11:50a	25 min
C Lunch		12:19p-12:44p	25 min
	Passing		6 min
Block 4		12:50p-1:50p	60 min

## Plainfield High School Early Release Schedule 2019-2020

Block 1		7:20a-8:10a	50 min
	Passing		6 min
Block 2		8:16a-9:06a	50 min
	Passing		5
Block 3		9:12a-10:02a	50 min
	Passing		5 min
Block 4		10:08a-11:00a	52 min

**Plainfield Public Schools Board of Education**

Christi Haskell, Chairperson  
Kathleen Barry, Vice Chairperson  
Audrey Lemieux, Secretary  
Cynthia Arpin  
Steven Boettcher

Peggy Bourey  
Michael Cartier  
Cheryl Hull  
Matthew Radant

**Central Office Administration**

Kenneth DiPietro, Superintendent of Schools  
Scott Sugarman, Assistant Superintendent  
Ronald Lussier, Business Manager  
Rena Cadro, Director of Curriculum and Grants  
Augusta Gilberti, Supervisor of Special Education  
Sharon Brunelle, Dattco Transportation Coordinator

**Administration**

James C. Worth, Principal

Jean B. Riley, Assistant Principal

Christopher L. Bitgood, Assistant Principal

**Art**

Lindsey Demuth

Cathleen Brown

**Business and Finance**

Carrie LaRoche, Faculty Coordinator

**Responsive Support Program**

Peter Aubin

Cathleen Coddling, Social Worker

**English**

Joshua Farrish, Faculty Coordinator\*  
Erin Duggan  
Timothy Craig  
Mindy Fennelly

Laura Maher  
Jason Greene  
Bethany Wagner

**Family & Consumer Science**

Laura Salo

**Guidance Department/Career Center**

Donna Belisle  
Emily Covill  
Janet Harmon, School Social Worker  
Michael Faulkenberry

Michelle Godaire  
Terry Liebel, Career Center  
David Willis\*

**Library/Media**

JoAnn Titus

**Mathematics**

Joyce Rice, Faculty Coordinator  
Paul Adams  
John DiGiacomo\*  
David Ewan\*

Raymond Murray  
Cassie Noble\*  
Ashley Wickham

**Music**

Kacey Howard

Brian Stevenson

### **Nurse's Office**

Susan Nagel, RN

Pam Hynes

### **Physical Education and Health**

Jan Voland, Athletic Director

Gary Zenowitz  
Jason Chaviaras

### **Science**

Tandi Rossman-Carignan, Faculty Coordinator  
Dr. Anita Japp  
Dr. Karen Culver-Rymsza

Heather Eighme  
Kim Glaizer  
Megan Longo\*  
Dr. John Wu

### **Social Studies**

Lisa Bastien, Faculty Coordinator  
Russell Hart\*  
Kevin Mariano

Patrick Smith\*  
David Wilcox  
Jon Zielinski

### **Special Education**

Carolyn Holmy, Faculty Coordinator  
Christopher Bailey  
Loreen Campbell

Bernard Dennler  
Melissa Hoyt\*  
Paul Kelley

### **Technology Education**

Timothy Jordan, Faculty Coordinator  
William Treiss  
Timothy Lafayette

James Ryan  
Lydia Mackela

### **World Language**

Jo-Ann Bray, Faculty Coordinator  
Rebecca Bourque

Justin Scott

#### **\*Indicates Freshman Academy Teacher**

##### **Team Leaders**

Laura Maher – English, Social Studies, World Language  
Ray Murray – Math, Science, Technology

Jan Voland – Business and Finance, Family and Consumer Science, Music, Physical Education

### **Secretarial Staff**

Darlene Hoffman, Guidance Office  
Paula Norgren, Attendance Office

Beth Turenne, Principal's Office

### **Cafeteria**

Linda Schultz, Chartwells

### **Paraprofessionals**

Leslie Allard, Patricia Diaz, Sherrie Fletcher, Tricia LaFramboise, Mary Jane LeBlanc, Rayanne Masson  
Sean McAuliffe, Stephanie Nadeau, Christine Neal, Tammy Simonds, Adrienne Smith, Suzanne Smith,  
Melissa Waterman, Christine Westover, Donna York

### **Custodial Staff**

Robert Hansen, Lead Custodian  
Stephen Kennett  
William Ridgeway  
Elaine Tetreault

Mark Beauregard  
David Kettle  
Jeffrey Taranto

# GRADUATION REQUIREMENTS

To graduate from Plainfield High School a student must earn **26 credits** and must meet the credit distribution requirement. In addition to required courses, the student must satisfactorily meet the district's performance standards in **English, Social Studies, Mathematics, and Science**.

## Course Requirements

English	4
Math	4
Science	3
Social Studies- Including Modern U.S. History (1) and Civics (0.5)	3
Physical Education	1
Health Education	.5
Electives: Visual and Performing Arts, Technology Education, Family and Consumer Sciences, Core Area Electives, Business & Finance	10.5
<b>Total Number of Credits</b>	<b>26</b>

### All students must accumulate the following credits totals to advance grade levels.

- Grade 10 = 6 credits
- Grade 11 = 13 credits
- Grade 12 = 19 credits

# GRADES/MARKING SYSTEM

**REPORT CARDS AND MARKING SYSTEMS:** The school year is divided into four quarters for the purpose of issuing grades. Report cards are prepared shortly after the close of each marking period. The grade for each quarter is determined independently of the preceding quarter. Semester exams will be administered in January and June. Interim reports (progress or warning notices) are issued about mid-way through each quarter. Special interim reports may be issued at any time during the quarter. Final grades are average of first and second semester grades.

**GRADES:** Marks are based on class participation, written work, examinations and homework.

**Weighted Courses:** courses are weighted according to the legend indicated.

	<b>WEIGHT</b>
Advanced Placement (AP) / ECE	2.00
Honors	1.50
College Prep	1.25
Electives	1.00

## **Grade Reporting Scale**

### **Grade Alphanumeric Equivalent      4.0 SCALE EQUIVALENT RANGE**

Excellent 90 or above	3.60 -4.00
Above Average 80 -89	3.00 -3.59
Average 70 -79	2.00 -2.99
Low/Passing 65 -69	1.00 -1.99
Failure Below 65	0.000

Class rank is determined at the end of each year according to total quality points earned. Quality points are determined by multiplying the numerical grade by the weighted course value. Students will be ranked based on the class they enter with during their freshman year.

Seniors will be ranked at the end of the first semester of their senior year as well as the third quarter for the determination of class valedictorian and salutatorian. Students enrolled beyond four years will not be ranked. Students must attend Plainfield High School for two or more years to be considered in rank. Students who have extenuating circumstances (i.e. Rotary Exchange, early graduation, etc.) will be reviewed on a case by case basis.

**DROPPING AND CHANGING COURSES:** A student who is changing levels within the same department may do so at any time with teacher/counselor/parent approval. Any elective course may be dropped with teacher/counselor/parent approval and without penalty if done within the first 10 days. A student may also add a course within the first 10 days of a new semester with counselor/parent approval. To drop a course after the first 10 class days is at the discretion of the principal. Students transcripts will indicate WP (withdraw passing) or WF (withdraw failing)



**CREDIT RECOVERY:** Students who have taken and failed a course, and have passing grades for one semester of a one credit course and/or at the discretion of the principal, are eligible to enroll in a credit recovery program. The on-line courses are a monitored, self-paced and standards based interactive curriculum program. A referral to the program will be facilitated by the student's counselor. The course may be completed during a study hall, after school, or at home. All assessments must be completed at the school. All credit recovery courses should be completed within the school year. Seniors must complete all credit recovery courses by June 1<sup>st</sup>.

### **GENERAL GUIDELINES**

1. Plainfield High School has a four period A/B day rotation schedule. All students are required to register for a minimum of 8 credits per year. The principal may make an exception due to extenuating circumstances.
2. A course must be satisfactorily completed if credit is to be received.
3. Partial credit may be awarded at the discretion of the principal.
4. The Administration reserves the right to withdraw any course for which there is insufficient registration.
5. Physical Education is a .5 credit course. Be aware that the physical education requirement for graduation is 1 credit minimum.
6. Most colleges require 3 years of study of the same world language. This includes some business and technical schools. We encourage students to study a world language while in high school.
7. Course availability may prevent a change even after the first quarter. Adding courses may also be denied if the proposed change causes a schedule conflict. A selection means commitment. **PLAN CAREFULLY**; consult your parents and school counselor in planning your program.
8. Schedules will not be changed to facilitate senior privilege.

## **PROGRAM PLANNING GUIDELINES**

### **FRESHMEN ACADEMY**

The PHS freshmen academy is based on the concept of a school within a school. The academy places all 9th graders in a dedicated wing of the high school with its own instructional and support team. The professional team consists of academic teachers, a special education teacher, a school counselor, and an administrator who services the academy. The team shares common plan time to track student success and form an interdisciplinary approach to curriculum. The benefits of such an approach are:

- It enables the teachers to have more contact time with a smaller number of students. Teachers and students form a more personalized bond and teachers are better equipped to track student's success.
- The teachers and freshman academy staff are able to track success, monitoring issues, and provide feedback to parents and other staff members.
- To assist students who are in need of academic support, an after school tutoring program is offered to all students along with late bus transportation home.

### **1. PLANNING TO ATTEND COLLEGE AFTER HIGH SCHOOL**

Students who are considering applying to **college** are encouraged to take the following. This is a guideline: See your guidance counselor regarding your individual interests and future plans.

#### ***Grade 9***

Honors/College Prep English I  
Honors/College Prep Civics/  
Early U.S. History  
College Prep Integrated Science  
Honors/CP Algebra I  
World Language I

#### ***Grade 10***

Honors/College Prep English II  
Honors/College Prep World Civilization  
College Prep Biology  
Honors/CP Geometry  
World Language II

#### ***Grade 11***

Honors/College Prep English III

#### ***Grade 12***

AP/Honors/College Prep English IV course

Honors/College Prep Modern U.S. History	College Prep Social Studies elective
Honors/College Prep Chemistry &/or Physics	Honors/College Prep Science elective
Honor/College Prep Algebra II/	Honors Pre Calculus/Honors/CP Algebra III
Honors/CP Algebra III	CP Prob. and Stats
World Language III	

Students who are considering applying to **competitive colleges** are encouraged to take the following. This is a guideline: See your guidance counselor regarding your individual interests and future plans.

**Grade 9**

Honors English I  
 Honors Civics/Early U.S. History  
 Honors Integrated Science  
 Honors Geometry  
 World Language I

**Grade 10**

Honors English II  
 Honors World Civilization  
 Honors Biology  
 Honors Algebra II/Honors Algebra III  
 World Language II

**Grade 11**

Honors Humanities  
 Honors U.S. History  
 Honors Chemistry &/or Honors Physics/  
 AP Biology/ Honors Anatomy & Physiology  
 Honors Pre-Calc./Hon. Alg. III/ECE D. Math  
 World Language III

**Grade 12**

AP English  
 AP History  
 Honors Chemistry &/or Honors Physics/  
 AP Physics/AP Chemistry/AP Biology/  
 Honors Anatomy & Physiology  
 AP Calculus/Honors Pre-Calculus/ECE Dis. Math  
 World Language IV

Students who wish to apply to highly competitive colleges should take additional core electives.

**OTHER PROGRAMS**

1. **ADVANCED PLACEMENT PROGRAM(A.P.)** Advanced Placement courses are offered in English, Calculus AB, Biology, Chemistry, Physics B, U.S. History, Studio Art, and Music Theory, depending on enrollment numbers. Students are expected to take the AP exam in May.

2. **INDEPENDENT STUDY** Any junior or senior students who wish to take a course for enrichment, may elect to take a course independently for school credit. Students must be motivated and must possess the initiative, positive attendance record, persistence, and curiosity to carry an independent task through to completion. An important component of the study is the development of a mutually agreed upon performance assessment task between the student and the advisor. Candidates must have a minimum **GPA of 2.6**, no course failures, and administrative approval within the first 10 days of the semester. **NOTE: A STUDENT MAY TAKE ONLY ONE INDEPENDENT STUDY AT ANY GIVEN TIME AND MUST FILE A FORMAL REQUEST WITHIN THE FIRST TWO WEEKS OF THE TERM.**

**3. HEALTH OCCUPATIONS**

Health Occupations courses focus on 21st century health career skills and qualities, medical ethics, medical terminology, professional communication in the health industry. Medical/legal issues are also incorporated into the curriculum.

4. **RESPONSIVE SUPPORT PROGRAM (RSP)** The Responsive Support Program (RSP) Program is designed for special education students. These students have been identified through the PPT process needing a self-contained environment. The structure of the program is set up to provide students with modified academic classes in addition to group and individual therapy. Students receive credit in the areas needed to graduate, with the support of small group/individual instruction. A behavior management system is used for all students. The goal is to gradually transition students with needed supports back into the mainstream.

5. **COMMUNITY SERVICE** Plainfield High School students can earn credit through a community service or similar unpaid activity within the curriculum, school or outside community that provides a service to an individual or group in order to address a school or community need. The activity must be developmentally appropriate and meaningful to the student. Community service applications are available in the guidance office. All community service activities and credit determination are subject to final administrative approval prior to beginning the activity. All Community Service requirements must be completed by June 1. Fifty hours is equal to one-half credit; one hundred hours equals one credit.

#### 6. **PARTNERSHIP PROGRAM**

Eleventh and twelfth graders who have an 80 average may take a tuition free course at Quinebaug Valley Community College through the Partnership Program. Students need to be recommended by their guidance counselor, fill out an application, meet with an advisor from the college and take the basic skills assessment before being approved. Limited space is available, so students are encouraged to apply early (announcements and deadlines are always posted).

A Partnership Program course does not take the place of high school class; it is meant to be used only as enrichment for the student. Students will be responsible to pay for their books.

1. **OTHER ACADEMIC OPPORTUNITIES** Connecticut Education Law 2001, Section 10-22d, Student Recruitment by regional and inter-district specialized schools programs (recruitment of athletes prohibited), provides that each local and regional board of education shall provide full access to regional career and technical schools, regional career agricultural centers, inter-district magnet schools, charter schools and inter-district student attendance programs for the recruitment of students attending the schools under the board's jurisdiction, provided such recruitment is not for the purpose of interscholastic athletic competition.
2. **STUDENT LEARNING CENTER** The Student Learning Center is a resource center for any student who needs support in any course. Students can choose to come in as needed for help with learning a new skill for class or for instructional support. Students can come to the Student Learning Center during their study hall blocks or during class, as long as the course teacher has given permission. Teachers can also recommend students to the Student Learning Center for support if a student shows a need for further instruction or different approaches to learning. The Student Learning Center also supports mathematics instruction in small group lessons. Students who might need more focused support and/or study time can be assigned to the Student Learning Center through a Guided Study, where they will be able to work on assignments and skill development in an individualized manner. The Student Learning Center is one of the support centers for the Acellus and Credit Recovery programs as well.

## ENGLISH DEPARTMENT

141	Advanced Placement (AP) English	Credit 2
150	Early College Experience American Studies: Literature	Credit 1
111	Honors English I	Credit 1
121	Honors English II	Credit 1
131	Honors Humanities: English III	Credit 1
130	Honors Shakespeare	Credit 1
137	Honors Science Fiction	Credit 1
146	Honors British Literature (Not Offered in 2019-20)	Credit 1
149	Honors Non-Fiction	Credit 1
112	College Prep English I	Credit 1
122	College Prep English II	Credit 1
132	College Prep English III	Credit 1
134	College Prep Film Studies	Credit 1
136	College Prep Science Fiction	Credit 1
138	College Prep Lively Writing	Credit 1
140	College Prep Public Speaking	Credit 1
144	College Prep Journalism I (Not Offered in 2019-20)	Credit 1
147	College Prep Contemporary Fiction	Credit 1
148	College Prep Non-Fiction	Credit 1
113	Academic English I	Credit 1
123	Academic English II	Credit 1
133	Academic English III	Credit 1
135	Academic English IV	Credit 1

### **141 Advanced Placement (AP) English**

**Credit 2**

The Advanced Placement English course in English Literature and Composition prepares the student in both the study and practice of writing, as well as the study of literature. Writing assignments focus on the critical analysis of literature and include essays in exposition and argument. This is a full year course. **Prerequisites: Teacher recommendation and students must complete summer reading and writing assignments before classes begin in August. College credit may be gained by taking the Advanced Placement Examination in May.**

AE 1, 2, 3, 4 / SE 1, 2, 3

### **150 Early College Experience American Studies: Literature**

**Credit 1**

This course is a multi-disciplinary inquiry into the diversity of American society and culture which will span the colonial period through the modern day, tracing the connection of historical events, people, and movements to the literature of the time. Students will actively analyze a wide variety of primary and secondary sources to draw their own conclusions about how the American experience has evolved. An emphasis will be placed on how students' identities are a part of the fabric of what it means to be American in the 21st century. Students will also develop skills that are assessed on standardized testing such as the SAT.

Successful completion of the course will grant students their English III credit requirement for graduation. Students enrolled in American Studies: Literature must take American Studies: History #375 concurrently. Students earning an overall average of C or higher in both courses will earn three credits through UConn's Early College Experience Program that are transferable to over 87% of colleges and universities in the United States. **Prerequisites: To be eligible, a student must have either a 70 average or higher in an Honors English 2 course, or an 87 average or higher in a CP English 2 course.**

AE 1, 2, 3, 4 / SE 1, 2

### 111 Honors English I

Credit 1

This course is designed for the highly capable and motivated grade 9 English student. Students will read a cross-section of literature, including short stories, poetry, drama, and novels. Special emphasis will be given to vocabulary, outside reading, and critical thinking skills. **Prerequisite: Teacher recommendation.**  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 121 Honors English II

Credit 1

Honors English II is designed for motivated sophomores who seek and are able to meet an academic challenge. This course will cultivate students' abilities to formulate sophisticated responses to various forms of literature. Students will practice narrative, persuasive, and analytical writing. A strong emphasis will be placed on enhancing the reading and writing skills students need to perform well on SAT testing. Students will expand their knowledge of basic grammar rules, sentence structure, and vocabulary.  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 131 Honors Humanities: English III

Credit 1

Honors Humanities is open to those juniors who have demonstrated both aptitude and ability in English and willingness to accept a challenge. Focusing on American works, Honors English III begins to prepare the serious student for the types of reading and writing expected at the college level. Strong emphasis on research, vocabulary, and grammar continues. This course provides an excellent foundation for Advanced Placement English in the 12<sup>th</sup> grade. **Prerequisites: Teacher recommendation and students must complete summer reading and MLA writing assignments before classes begin in August.**  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 130 Honors Shakespeare

Credit 1

Shakespeare is offered as an alternative to meet the English IV requirements. This course will primarily focus on reading and studying a variety of Shakespearian plays. In addition, the course will also cover selected literature from the medieval period, The Renaissance, and the Elizabethan Age. **Prerequisites: College Prep English III**  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 137 Honors Science Fiction

Credit 1

Honors Science Fiction is a course that offers in depth exploration of the genre of science fiction and its impact on both literature and popular culture. Students will learn the history of the genre, examine core concepts and themes, study prominent science fiction authors and texts, and analyze how science fiction can be used a powerful tool for social criticism. Students will read and analyze challenging science fiction texts, as well as complete rigorous writing assignments that are comparable to those found in a college literature course.  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 146 Honors British Literature

Credit 1

Students will experience an array of writings from British authors focusing on the themes of monstrosity, humanity, and gender roles. Students will be exposed to British literary works through authors and historical contexts. This course is a college level writing course with a focus on rhetorical devices through strategy, organization, style and analysis. Students will continue to improve grammatical skills, expand vocabulary, and hone analytical, persuasive, and argumentative writing skills as they personally connect this country's literature to their own lives. The current curriculum includes the following texts: *Beowulf*, *Grendel*, *Macbeth*, *The Taming of the Shrew*, and *Brave New World* along with selections of poetry and short fiction. **Prerequisites: English III.**  
AE 1, 2, 3, 4 / SE 1, 2, 3

### 149 Honors Non-Fiction

Credit 1

In non-fiction Literature, students will explore non-fiction and biographical texts from a wide range of authors. Students will study the cultural and historical background of each text. Students will explore such themes as

racism, isolation, fear, hope, change, and forgiveness. The curriculum will focus on the analytical reading and writing skills necessary for success in college. The current curriculum includes the following texts: *In Cold Blood*, *The Glass Castle*, *Autobiography of Malcolm X*, *A Walk in the Woods*, and *Life After Death*. Note: this course may be taken as an elective. Summer reading is required.  
AE 1, 2, 3, 4 / SE 1, 2

### **112 College Prep English I**

**Credit 1**

In this course, students will read a wide selection of literature, including both fiction and non-fiction. Students will study different literary terms and styles, as well as develop research and communication skills. Special attention will be given to vocabulary, grammar, and the writing process.  
AE 1, 2, 3, 4 / SE 1, 2, 3

### **122 College Prep English II**

**Credit 1**

The course is designed to cultivate students' abilities to formulate fundamentally sound responses to various forms of literature. Students will practice narrative, persuasive, and analytical writing. A strong emphasis will be placed on enhancing the reading and writing skills students need to perform well on SAT testing. Students will expand their knowledge of basic grammar rules, sentence structure, and vocabulary.  
AE 1, 2, 3, 4 / SE 1, 2, 3

### **132 College Prep English III**

**Credit 1**

In this course, the nature of American Literary tradition is examined. The uniqueness of American language and thought is traced through America's literature. Selections are chosen from Colonial through Modern times. The study of grammar and vocabulary is continued, with an added emphasis on research techniques and expository writing.  
AE 1, 2, 3, 4 / SE 1, 2, 3

### **134 College Prep Film Studies**

**Credit 1**

This course examines film and the relationship between literature and film. Students will examine how literature and film interconnect through theme, plot structure, mood, setting, tone, character development, imagery, and symbolism. The course will feature films spanning the time frame of the early 1940's to the present. **Prerequisites:**  
**Open to 11<sup>th</sup> and 12<sup>th</sup> grade students who have successfully completed English I and II.**  
AE 1, 2, 3, 4 / SE 1, 2, 3

### **136 College Prep Science Fiction**

**Credit 1**

Science Fiction is a course for seniors that offers in depth exploration of the genre of science fiction and its impact on both literature and popular culture. Students will learn the history of the genre, examine common concepts and themes, study prominent science fiction authors and texts, analyze how science fiction can be used as a powerful tool for social criticism.  
AE 1, 2, 3, 4 / SE 1, 2

### **138 College Prep Lively Writing**

**Credit 1**

Lively Writing is an elective course focusing on improving students' awareness and skills in the writing process. Students will practice various modes of creative writing: including personal narratives, short fiction, poetry, etc. Students will also read a wide variety of fiction and non-fiction, as the course will emphasize regular reading as an essential tool for developing writing skills.  
AE 1, 2, 3, 4 / SE 1, 2

### **140 College Prep Public Speaking**

**Credit 1**

Public speaking is an elective course in which students will learn the fundamentals of speech communication. Students will learn to deliver, discuss, and respond to presentations of increasing complexity. Emphasis will be placed on organization, analysis, and elements of speech delivery, including effective verbal and non-verbal aspects of communication.  
AE 1, 2, 3, 4 / SE1, 2, 3

**144 College Prep Journalism I****Credit 1**

An elective class for 10th, 11th and 12th grade students. Journalism is the study of the art of reporting and the profession of journalists. Beginning journalism students receive instruction in all areas of journalism. Among the areas covered are interviewing, beat reporting, feature writing, news stories, layout design, advertising, journalistic ethics, professional standards. This course includes extensive reading of models of excellent journalistic techniques, and it evaluates and analyzes journalistic writing through discussions and critiques. Students will contribute material to the school newspaper.

AE 1, 2, 3, 4 / SE 1, 2, 3

**147 College Prep Contemporary Fiction****Credit 1**

With a focus on contemporary fiction, students will explore a diverse range of writings from current and emerging authors. Students will be exposed to various aspects of the human experience, focusing on life lessons which can be applied to personal well-being. Students will continue to improve grammatical skills and expand vocabulary. The curriculum will allow for students to focus on improving writing skills for either college or work. The current curriculum includes the following texts: *The Road*, *Rot and Ruin*, *I am the Messenger*, *The Help* and selections of short fiction. Note: this course may be taken as an elective. **Prerequisites :English III**

AE 1, 2, 3, 4 / SE 1, 2

**148 College Prep Non-Fiction****Credit 1**

In non-fiction Literature, students will explore non-fiction and biographical texts from a wide range of authors. Students will study the cultural and historical background of each text. Students will explore such themes as racism, isolation, fear, hope, change, and forgiveness. The curriculum will allow for students to focus on improving writing skills for either the college or work setting. The current curriculum includes the following texts: *In Cold Blood*, *The Glass Castle*, *Autobiography of Malcolm X*, *A Walk in the Woods*, and *Life After Death*. Note: this course may be taken as an elective. **Prerequisites: English III**

AE 1, 2, 3, 4 / SE 1, 2

**113 Academic English 1****Credit 1**

Academic English 1 is a course designed to support students as they work to improve their literacy skills. Students will learn the same concepts covered in all English I courses, but text selections and the pacing of the course will be modified to meet students' needs. Students will read a wide selection of literature, including both fiction and non-fiction. Students will study different literary terms and styles, as well as develop research and communication skills. Special attention will be given to vocabulary, grammar, and the writing process.

AE 1, 2, 3, 4 / SE 1, 2

**123 Academic English II****Credit 1**

Academic English II is a course designed to support students as they work to improve their literacy skills. Students will learn the same concepts covered in all English II courses, but text selections and the pacing of the course will be modified to meet students' needs. Students will practice narrative, persuasive, and analytical writing. A strong emphasis will be placed on enhancing the reading and writing skills students need to perform well on SAT testing. Students will expand their knowledge of basic grammar rules, sentence structure, and vocabulary.

AE 1, 2, 3, 4 / SE 1, 2

**133 Academic English III****Credit 1**

Academic English III is a course designed to support students as they work to improve their literacy skills. Students will learn the same concepts covered in all English III courses, but text selections and the pacing of the course will be modified to meet students' needs. In this course, the nature of American Literary tradition is examined. The uniqueness of American language and thought is traced through America's literature. Selections are chosen from Colonial through Modern times. The study of grammar and vocabulary is continued, with an added emphasis on research techniques and expository writing.

AE 1, 2, 3, 4 / SE 1, 2

**135 Academic English IV****Credit 1**

Academic English IV is a course designed to support students as they work to improve their literacy skills. Students will learn the same concepts covered in all English IV courses, but text selections and the pacing of the course will be modified to meet students' needs. With a focus on contemporary fiction, students will explore a

diverse range of writings from current and emerging authors. Students will be exposed to various aspects of the human experience, focusing on life lessons which can be applied to personal well-being. Students will continue to improve grammatical skills and expand vocabulary. The curriculum will allow for students to focus on improving writing skills for either college or work.

AE 1, 2, 3, 4 / SE 1, 2

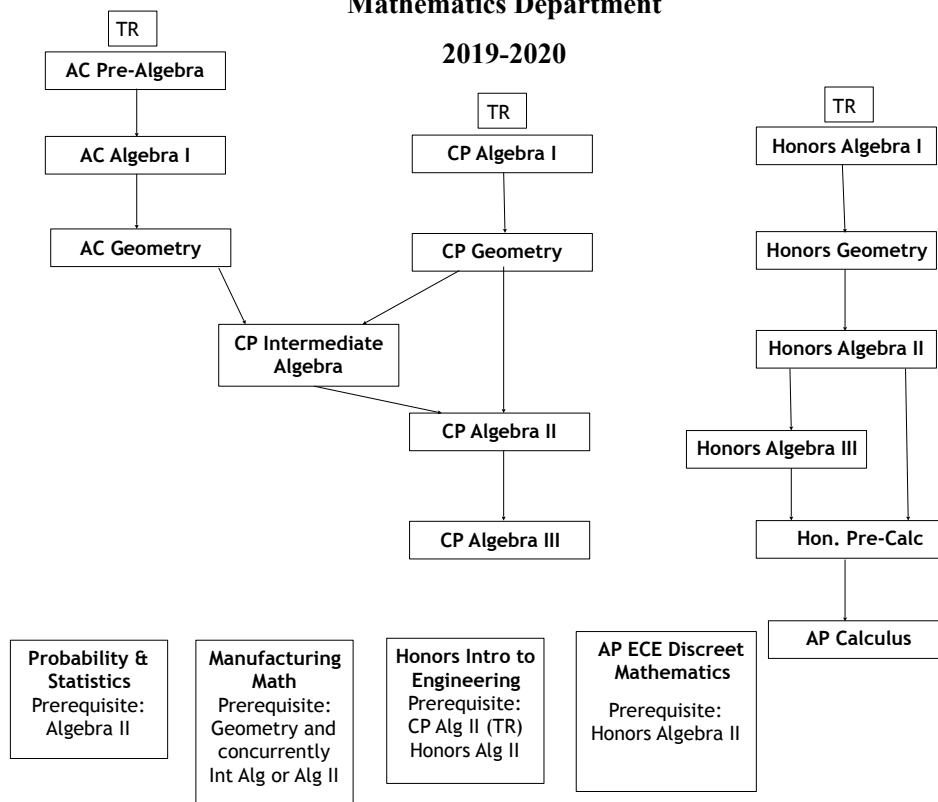


# MATHEMATICS DEPARTMENT

253	Advanced Placement (AP) Calculus	Credit 2
242	Early College Experience Elementary Discrete Mathematics	Credit 1
216	Honors Algebra I	Credit 1
225	Honors Algebra II	Credit 1
235	Honors Geometry	Credit 1
226	Honors Algebra III	Credit 1
250	Honors Pre-Calculus	Credit 1
211	College Prep Algebra I	Credit 1
215	College Prep Intermediate Algebra	Credit 1
220	College Prep Algebra II	Credit 1
230	College Prep Geometry	Credit 1
227	College Prep Algebra III	Credit 1
241	College Prep Probability and Statistics	Credit 1
254	College Prep Manufacturing Mathematics	Credit 1
210	Academic Pre-Algebra	Credit 1
218	Academic Algebra I	Credit 1
236	Academic Geometry	Credit 1

## Plainfield High School Mathematics Department

2019-2020



**253 Advanced Placement (AP) Calculus****Credit 2**

This advanced college level course is designed to provide the mathematical foundation in the study of calculus. The topics covered in this course include the use of algebra, coordinate geometry, trigonometry, logarithms, and an in-depth study of functions, limits and continuity, derivatives and the shape of their curves. This includes applications of tangent lines, distance, velocity, acceleration, critical numbers, maximum and minimum, concavity and inflection points, related rate and optimization problems and integration. Students are required to complete a review assignment packet for a grade during the summer preceding this course.

There will be periodic labs with class time. (A graphing calculator is required.) **Prerequisite: Honors Pre-Calculus**

AE 2, 3 / SE 2

**242 Early College Experience Elementary Discrete Mathematics****Credit 1**

ECE Elementary Discrete Mathematics explores problem solving strategies, solutions of simultaneous linear equations, sequences, counting and probability, graph theory, deductive sequences, counting and probability, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems. Students will receive UCONN College Credit with successful completion. (A graphing calculator is required.)

**Prerequisite: Honors Algebra II**

AE2, 3 SE2

**216 Honors Algebra I****Credit 1**

Honors Algebra I course is the basis for all subsequent courses in mathematics. Algebraic concepts consists of patterns, linear equation, linear inequality, functions, linear functions, scatterplots and trend lines, systems of linear equations, introduction to quadratic functions and exponential functions. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Recommendation of Mathematics Teacher**

AE 2, 3 / SE 2

**225 Honors Algebra II****Credit 1**

Honors Algebra II course is a continuation of the concepts learned in the Honors Algebra I course. This advanced algebraic course covers functions and inverse functions, graphing and solving quadratic functions, polynomials and polynomial functions, powers, roots, radicals, exponential functions, factoring, statistics, and introduction to rational functions. Honors Algebra II is a prerequisite for Honors Algebra III or Honors Pre-Calculus. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Honors Geometry or Recommendation of College**

**Prep Geometry Teacher**

AE 2, 3 / SE 2

**235 Honors Geometry****Credit 1**

Honors Geometry is a deductive approach to Euclidean Geometry. The course develops the foundations of geometry, logic and reasoning, triangle congruence, polygons, similarity and proportional relationships, two and three dimensional figures, circles, coordinate geometry, and right triangle trigonometry. (A scientific calculator is required.) **Prerequisite: Honors Algebra I or Recommendation of College Prep Algebra I Teacher**

AE 2, 3 / SE 2

**226 Honors Algebra III****Credit 1**

Honors Algebra III course is a continuation of concepts learned in Honors Algebra II and an introduction to Honors Pre-Calculus concepts. This advanced algebraic course covers exponential and logarithmic functions, graphing rational functions, rational equations, quadratic relations, conics, trigonometric ratios, functions and laws, sequences and series and SAT review, (A scientific calculator or a graphing calculator is required.) **Prerequisite:**

**Honors Algebra II or Recommendation of College Prep Algebra II Teacher**

AE 2, 3 / SE 2

**250 Honors Pre-Calculus****Credit 1**

Honors Pre-Calculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus. This course will strengthen students' conceptual understanding of mathematics and problem solving methods. The course's topics include finding all possible zeros of various polynomial functions, solving exponential and logarithmic functions, graphing trigonometric functions, and solving trigonometric equations by using identities. (A scientific or graphing calculator is required.) **Prerequisite: Honors Algebra II**  
AE 2, 3 / SE 2

**211 College Prep Algebra I****Credit 1**

CP Algebra I course is the basis of all subsequent concepts in mathematics. This course encompasses patterns, linear equations, linear inequalities, functions, linear functions, scatterplots, trend lines, and systems of equations. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Recommendation of Mathematics**

**Teacher**

AE 2, 3 / SE 2

**215 College Prep Intermediate Algebra****Credit 1**

CP Intermediate Algebra will include an extensive review of CP Algebra I and an introduction into CP Algebra II concepts with an emphasis on problem solving and real world application. The course will develop the algebraic concepts of the real number system, expressions, equations, inequalities, linear functions, graphing linear functions, systems of equations, quadratic functions, polynomials and polynomial functions, factoring and SAT review. (A scientific calculator or a graphing calculator is required.) **Prerequisite: College**

**Prep Geometry**

AE 2, 3 / SE 2

**220 College Prep Algebra II****Credit 1**

CP Algebra II course is a continuation of the concepts learned in the CP Algebra I course. This course introduces and develops algebraic concepts of functions and inverse functions, graphing and solving quadratic functions, polynomial and polynomial functions, powers, roots, factoring, statistics and introduction of exponential functions. Students who wish to continue mathematics and/or science in college should take Honors Algebra II. (A scientific calculator or a graphing calculator is required.) **Prerequisite: College Prep Geometry**

AE 2, 3 / SE 2

**230 College Prep Geometry****Credit 1**

CP Geometry course covers materials and concepts with an emphasis on applications of theorems. This course will introduce and develop foundations of geometry, logic and reasoning, triangle congruence, polygons, similarity and proportional relationships, two and three dimensional figures, circles, and right triangle trigonometry. (A scientific calculator is required.) **Prerequisite: College Prep Algebra I**

AE 2, 3 / SE 2

**227 College Prep Algebra III****Credit 1**

CP Algebra III course is a continuation of the concepts learned in CP Algebra II and an introduction to Honors Pre-Calculus concepts. This course introduces and develops concepts of powers, roots, radicals, exponential and logarithmic functions, graphing of rational functions, rational equations, trigonometric ratio and functions, sequence and series, and SAT review. (A scientific calculator or a graphing calculator is required.) **Prerequisite:**

**College Prep Algebra II**

AE 2, 3 / SE 2

**241 College Prep Probability and Statistics****Credit 1**

CP Probability and Statistics introduces foundational concepts and methods of statistics including data description, confidence intervals, and probability theory. Students will learn the relevancy of probability and statistics in real world situations by displaying, analyzing and interpreting given data. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Honors Algebra II or College Prep Algebra II**

AE 2, 3 / SE 2

**254 College Prep Manufacturing Mathematics****Credit 1**

CP Manufacturing Mathematics is a study of arithmetic, algebraic, geometric, and trigonometric operations applied to manufacturing circumstances. Fractions, decimals, percentages, ratios and proportions, Cartesian coordinate system, algebraic formulas, conversion of units, angles, the Pythagorean Theorem, trigonometric functions, the metric system, as well as customary units of measure, are studied in depth and applied. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Honors Geometry or College Prep Geometry and taking Intermediate Algebra, Honors Algebra II or College Prep Algebra II concurrently with course.**

AE 2, 3 / SE 2

**210 Academic Pre-Algebra****Credit 1**

Academic Pre-Algebra course is a reinforcement and introduction of the skills needed for Algebra I. This course reinforces and develops concepts of operations with rational numbers, percent, statistics, and probability. Algebraic concepts that introduced include powers, roots, algebraic expressions, equations, inequalities, and linear functions. (A scientific calculator is required.) **Prerequisite: Recommendation of Mathematics Teacher**

AE 2, 3 / SE 2

**218 Academic Algebra 1****Credit 1**

Academic Algebra I course is the basis for all subsequent work in mathematics. This course encompasses operations with rational numbers, order of operations, linear equations, inequalities, function notation, linear functions, scatterplot and trend lines. (A scientific calculator is required.) **Prerequisite: Recommendation of Mathematics Teacher**

AE 2, 3 / SE 2

**236 Academic Geometry****Credit 1**

Academic Geometry is a deductive approach to Euclidean Geometry. The course's topics include establishing triangle congruence, properties of polygons, using proportional relationships, formulas with two and three-dimensional figures, and relationships with circles. (A scientific calculator is required for this course.)

**Prerequisite: Recommendation of Academic Algebra I Teacher**

AE 2, 3 / SE 2

## SOCIAL STUDIES DEPARTMENT

360	Advanced Placement (AP) U. S. History	Credit 2
375	Early College Experience American Studies: History	Credit 1
318	Honors Civics/Early U.S. History	Credit 1
300	Honors Modern World History	Credit 1
329	Honors Modern U.S. History	Credit 1
320	College Prep Civics/Early U.S. History	Credit 1
301	College Prep Modern World History	Credit 1
330	College Prep Modern U.S. History	Credit 1
340	College Prep Sociology	Credit .5
350	College Prep Psychology	Credit .5
371	College Prep Human Development	Credit 1
372	College Prep Human Development II (Not Offered in 2019-20)	Credit 1
374	College Prep Science in History (Not Offered in 2019-20)	Credit .5
377	College Prep World Philosophy and Ethics	Credit 1
311	Academic Civics/Early U.S. History	Credit 1
312	Academic Modern World History	Credit 1
313	Academic Modern U.S. History	Credit 1
370	Academic Contemporary Issues	Credit 1

### **360 Advanced Placement (AP) U. S. History**

**Credit 2**

This course will prepare the student for the AP United States history test in May. It is an extremely demanding course, which is meant to approximate a college United States history course. The course will trace the development of American ideals and history, from our early beginnings in Jamestown, right up to the present day. There will be a tremendous amount of reading in the course, as much as you would find in a college course. In addition to our college level textbook, students will be exposed to a wide range of primary source materials as well as a variety of handouts which are designed to give a broader perspective and insight into our nation's evolution. Emphasis will be placed on a scholarly investigation of these source materials, in order to develop higher level thinking and analyzing skills.

In addition, students will be exposed to, and receive a great deal of practice on free response essays and Document Based Questions (DBQs) throughout the course, as they comprise a large portion of the yearly AP History exam. Students will be assigned (on average) two papers a week, which will prepare them for the types of questions that they will receive on the AP test. Finally time will be spent throughout the course on general skills and strategies that will provide success on the AP exam. **Prerequisite: Successful completion of Honors Modern U.S. History or consent of teacher.**

AE 1, 2, 3, 4 / SE 2 / CE 2

### **375 Early College Experience American Studies: History**

**Credit 1**

This course is a multi-disciplinary inquiry into the diversity of American society and culture, which will span the colonial period through the modern day, tracing the connection of historical events, people, and movements to the literature of the time. Students will actively analyze a wide variety of primary and secondary sources to draw their own conclusions about how the American experience has evolved. An emphasis will be placed on how students' identities are a part of the fabric of what it means to be American in the 21st century. Students will also develop skills that are assessed on standardized testing such as the SAT.

Successful completion of the course will grant students their Modern United States History credit requirement for graduation. Students enrolled in American Studies: History must take American Studies: English #150 concurrently. Students earning an overall average of C or higher in both courses will earn three credits through UConn's Early College Experience Program that are transferable to over 87% of colleges and universities in the United States. **Prerequisites: To be eligible, a student must have either a 70**

average or higher in a Honors Modern World History AND Honors English 2 course, or an 87 average or higher in CP Modern World History AND CP English 2 course.

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 2

### **318 Honors Civics/Early U.S. History**

**Credit 1**

The first semester of this course will examine the United States government, including the three branches, the electoral process, laws, events, decisions, and documents that have had an impact on the development of our nation. During the second semester, the focus will be on the early history of the United States by introducing students to the events, decisions, documents and personalities that shaped the growth of our nation from the election of Washington through the Civil War. A variety of instructional techniques will be used including: debates, PowerPoint presentations, and collaborative groups. Students will be expected to write persuasively, read effectively for information, think and express their thoughts analytically, collaborate successfully with others on projects, research selected topics, utilize technology, and analyze current events. **Prerequisite: Departmental recommendation is required**

AE 1, 2, 3, 4 / SE 1, 2 / CE 1, 2

### **300 Honors Modern World History**

**Credit 1**

Modern World History is a yearlong survey course, in which the significant trends and characteristics of world history, since the nationalist and independence movements began in the 19<sup>th</sup> century, are examined. The goal is to make understandable the political, economic and social foundations of today's world. In order to make sense of present realities, students will be asked to analyze the elements that created them. In this course students will be expected to write persuasively, read effectively for information, think and express their thoughts analytically, work successfully with others on a variety of projects, research selected topics, utilize technology, and discuss current events. **Prerequisite: Departmental recommendation is required**

AE 1, 2, 3, 4 / SE 1 / CE 2

### **329 Honors Modern U.S. History**

**Credit 1**

This yearlong course examines the emergence of Modern America beginning with the Progressive era and continuing to the present day. Students will be exposed to an in depth study of important historical events of the past century, highlighting the evolution of Modern America. A variety of instructional techniques will be used including mock trials, debates, PowerPoint presentations, and collaborative groups. Students will be expected to write both expository and research-based essays. They will additionally be prompted to think critically about the specifics of 20<sup>th</sup> century America. **Prerequisite: Departmental recommendation is required**

AE 1, 2, 3, 4 / SE 2 / CE 2

### **320 College Prep Civics/Early U.S. History**

**Credit 1**

The first semester of this course will introduce students to the three branches of government as well as gain a working knowledge of our republic, the constitution, and the electoral process. Students will be expected to think critically about a variety of issues, to write persuasively and contribute constructively within class discussions. During the second semester, students will examine the events, decisions, documents, and personalities that shaped the growth of our nation from the election of Washington through the Civil War. A series of persuasive and expository essays will be assigned.

AE 1, 2, 3, 4 / SE 1, 2 / CE 1

### **301 College Prep Modern World History**

**Credit 1**

Modern World History is a yearlong survey course, in which the significant trends and characteristics of world history, since the nationalist and independence movements began in the 19<sup>th</sup> century, are examined. The goal is to make understandable the political, economic and social foundations of today's world. In order to make sense of present realities, students will be asked to analyze the elements that created them. In this course students will be expected to write persuasively, read effectively for information, think and express their thoughts analytically, work successfully with others on a variety of projects, research selected topics, utilize technology, and discuss current events.

AE 1, 2, 3, 4 / SE1 / CE2

### **330 College Prep Modern U.S. History**

**Credit 1**

This yearlong course will examine the emergence of modern America beginning with a discussion of life in turn of the century 1900 and will include examining the major individuals, movements and events of the 20<sup>th</sup> century. A variety of different instructional strategies will be utilized, such as debates, PowerPoint presentations and cooperative projects with their classmates. Students will be expected to think critically about a variety of issues, to write persuasively and contribute constructively within class discussions.

AE 1, 2, 3, 4 / SE 1 / CE 2

**340 College Prep Sociology****Credit .5**

This introduction to the basic principles of sociology is offered to juniors and seniors. This semester course investigates the many social forces which shape the nature of man. Among the areas in focus are cultural conformity vs. cultural diversity, societal norms, an examination of the changing American values system, and the role of nature vs. nurture in the development of the individual. Students will be required to complete a multimedia research project on a sociological topic of interest. *Prerequisite: Must be a junior or senior*

AE 1, 2, 3, 4 / SE 1 / CE 1

**350 College Prep Psychology****Credit .5**

This introduction to the basic principles of psychology is offered to juniors and seniors. The semester course investigates the major psychological principles, perspectives, and theories which shape the human mind. Among the areas in focus are classical intelligence vs. multiple intelligences, consciousness and altered consciousness, learning and conditioning and the factors that shape mental health. *Prerequisite: Must be a junior or senior*

AE 1, 2, 3 / SE 1, 4 / CE 1

**371 College Prep Human Development****Credit 1**

This course is the study of the principles of the psychology and sociology of child development and is designed to fulfill the requirements of a Plainfield High School Social Studies elective course. This course investigates the many social, physical, environmental and cultural forces, which shape the development of children. Among the areas of focus within the realm of psychology realm are the leading theories of child development, nature vs. nurture, the effects of: parenting styles, child care, fathers, same sex parenting, abuse and neglect on the development of children, as well as gender differences. *Prerequisite: Must be a junior or senior*

AE 1, 2, 3, 4 / SE 1, 2, 3

**372 College Prep Human Development II****Credit 1**

The study of the principles of sociology of human development is offered to juniors and seniors to fulfill the requirements of a Plainfield High School Social Studies elective course. This full year course investigates the many internal and cultural forces, which shape the nature of man. Among the areas of focus are the historical, philosophical and sociological perspectives of childhood, growth and development through adolescence, into adult maturity, the aging process, and death. Emphasis will be placed upon the evolving nature of learning theories, educational settings, and personal maturation throughout the lifespan in a rapidly changing world.

*Prerequisite: Must be a senior & passed Human Development I*

AE 1, 2, 3, 4 / SE 1, 2, 3

**374 College Prep Science in History****Credit .5**

Science in History is a full year course that is taught in an "A/B" schedule with cooperating Science and Social Studies teachers. The course will focus on the effect that scientific advancements have had on specific historical events and/or the human condition as a whole. The science portion of the class will focus on the scientific principles behind specific scientific advancements. A heavy emphasis will be placed on deeper study of scientific concepts covered in lesser detail in the students' previous science courses. The history portion of the class will focus on the historical implications of scientific advancements for specific historical events such as WWII and for humanity as a whole such as the development of the automobile. The history portion of the class will also focus on the biographies of famous scientists in history. There will be an emphasis on the collection of and interpretation of primary source documents, debate, as well as persuasive and analytical writing. Completion of this course will provide .5 Social Studies and .5 Science elective credits. *Prerequisite: Must be a junior or senior*

AE 1, 2, 3, 4 / SE 1, 2, 3

**377 College Prep World Philosophy and Ethics****Credit 1**

The class will take a secular chronological approach at exploring the most renowned of the world's philosophers and their respective movements and theories. Students will better understand the conceptual framework that shaped events in history through study of time periods such as the Renaissance and the Enlightenment. A major part of the course will be class discussions, as Philosophy is based on arguments and critique, and through engaging in discussions, critical thinking will occur, in the true Socratic Method. The central idea of the class is the concept that studying ethics and philosophy is important in that it teaches us not what to think but rather how to think. Only through contemplation and examination of our belief systems can we act responsibly, become better citizens and have a more comprehensive understanding of the world. As a result of taking this course students will improve their communication and writing skills, persuasive powers, and critical thinking. Most importantly the class invites students to begin self-reflection concerning their role in the world. *Prerequisite: an 80 or better in their last Social*

*Studies class, or consent of the instructor for juniors and seniors* AE 1, 2, 3 / SE 1, 2, 3

**311 Academic Civics/Early U.S. History****Credit 1**

The first semester of this course will introduce students to the three branches of government as well as gain a working knowledge of our republic, the constitution, and the electoral process. During the second semester, students will examine the events, decisions, documents, and personalities that shaped the growth of our nation from the election of Washington through the Civil War. Content is generally presented through a project based approach. There is also a strong focus in both courses on skill development including reading comprehension, organization, use of sources and debating current events.

AE 1, 2, 3, 4 / SE 1, 2 / CE 1

**312 Academic Modern World History****Credit 1**

Modern World History is a yearlong survey course, in which the significant trends and characteristics of world history, including nationalism, independence movements and both World Wars, are examined. The goal is to make understandable the political, economic and social foundations of today's world. There is a strong focus on skill development including reading comprehension, interview skills, use of sources and debating current events.

AE 1, 2, 3, 4 / SE 1, 2 / CE 1

**313 Academic Modern U.S. History****Credit 1**

This yearlong course will examine the emergence of modern America focusing on WWII as a major turning point into a time of diplomatic challenges, including the issues of the Cold War and relations with the Middle East. Current Events will be used to make connections between history and the issues we strive to overcome in today's world. There is also a strong focus on skill development including reading comprehension, organization and the use of sources.

AE 1, 2, 3, 4 / SE 1, 2 / CE 1

**370 Academic Contemporary Issues****Credit 1**

This yearlong course is offered to juniors and seniors. The course content is designed to familiarize students with the basic political structure of the United States. Students will be exposed to modern social problems and relate them to the national, state and local levels of government. Third World problems will be studied along with implications for the stability of the international community. Students will analyze various philosophical positions and identify and develop their own philosophies. Emphasis will be placed on an analysis of real-world issues, which have a direct impact on students' lives. Periodic analysis of assigned news items will be made using daily news broadcasts, news magazines and newspapers. Classroom discussion will be used to build better understanding of contemporary issues. A series of persuasive and expository essays and a research paper will be assigned.

AE 1, 2, 3, 4 / SE 1, 2 / CE 1, 2



# SCIENCE DEPARTMENT

415	Advanced Placement (AP) Biology	Credit 2
421	Advanced Placement (AP) Chemistry	Credit 2
462	Advanced Placement (AP) Physics B (Not Offered in 2019-20)	Credit 2
424	Honors Integrated Science	Credit 1
400	Honors Biology	Credit 1
418	Honors Chemistry	Credit 1
461	Honors Physics	Credit 1
470	Honors Anatomy & Physiology	Credit 1
423	College Prep Integrated Science	Credit 1
401	College Prep Biology	Credit 1
405	College Prep Forensic Science	Credit .5
420	College Prep Chemistry	Credit 1
425	College Prep Environmental Science	Credit .5
431	College Prep Anatomy and Physiology	Credit 1
441	College Prep Marine Science	Credit .5
450	Introduction to Meteorology (Not Offered in 2019-20)	Credit 1
460	College Prep Physics	Credit 1
374	College Prep Science in History (Not Offered in 2019-20)	Credit .5
427	Academic Integrated Science	Credit 1
402	Academic Biology	Credit 1
417	Academic Chemistry (Formerly Chemistry in the Community)	Credit 1
428	Academic Anatomy and Physiology (Formerly Life Science)	Credit 1
432	Academic Physical Science (Not Offered in 2019-20)	Credit 1

Three science credits are required for graduation. Students planning post-graduate study in related fields are encouraged to take at least four sciences. A variety of courses covering the natural sciences are offered for students with all levels of interest. PLEASE NOTE: some courses require proficiency in math or basic science skills prior to enrollment. Prerequisites are intended to ensure student success.

Sequences begin with Integrated Science (9th grade) and Biology I (10th grade). These courses are required for graduation and standardized test preparation. Students may use the following sample sequences for planning purposes to prepare for post-graduation studies.

Grade Level	Academic Track	Honors and Science Career Track (Pharmacy, nursing, pre-med, engineering, research, veterinary, teaching, etc)
9-10 <sup>th</sup> Grade	AC or CP Integrated AC or CP Biology	Honors Integrated Honors Biology Honors Chemistry
11-12 <sup>th</sup> Grade	<i>Suggested Choices Include:</i> CP Physics CP Chemistry Life Science Environmental Science Marine Science Chemistry in the Community Forensics Physical Science Science in History	<i>Suggested Choices Include:</i> Honors Physics Honors Anatomy and Physiology AP Biology AP Chemistry AP Physics Meteorology

**415 Advanced Placement (AP) Biology****Credit 2**

AP Biology is designed to be the equivalent of a two-semester college introductory biology course. This course differs significantly from the College Prep or Honors Biology with respect to the range and depth of topics covered, the type of laboratory work, and the time and effort required. The AP Biology course is designed to be taken only after successful completion of high school biology and chemistry. A summer reading assignment is required. *Prerequisite: AP Bio requires completion of Integrated Science and an 80 or better in Honors Biology, Algebra II, and Honors Chemistry or teacher consent. Required summer assignment included.*

AE 1, 2, 3

**421 Advanced Placement (AP) Chemistry****Credit 2**

AP Chemistry is designed to be the equivalent of a general chemistry course usually taken during the first college year. Through the course, students should attain a solid understanding of fundamentals, and competence in solving quantitative and analytical problems in chemistry. This course differs from College Prep Chemistry with respect to the level of the textbook, topics covered, emphasis on chemical calculations, mathematical formulations of principles, and laboratory work. Completion of a summer assignment is required. *Prerequisite: The AP Chemistry course is designed to be taken only after successful completion of Honors Biology, Honors Chemistry and Algebra II, with a Grade of 80 or above. Exceptions will require teacher consent. Required summer assignment included.*

AE 2, 3

**462 Advanced Placement (AP) Physics B****Credit 2**

The AP Physics course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course. *Prerequisite: The AP Physics course is designed to be taken only after successful completion of CP or Honors Physics and Algebra II, with a Grade of 80 or above. Exceptions will require departmental approval.*

AE 2, 3

**424 Honors Integrated Science****Credit 1**

Honors Integrated Science is the Freshman Academy honors science course that introduces students to the foundational concepts in science using an interdisciplinary approach to prepare students for their additional course work in science. Integrated Science includes Earth and Space Science and Physical Sciences with topics including Earth's Place in the Universe, Earth's Systems, Earth and Human Activity, Matter and Interactions and Energy. This course prepares students for state standardized testing and is intended for students taking honors level math classes, as there is a strong component of mathematical reasoning and analysis of experimental data. *Prerequisites: Teacher recommendation, and 85 or higher average in 8<sup>th</sup> grade science and concurrent enrollment in Honors Algebra I or Honors Geometry*

AE 1, 2, 3

**400 Honors Biology****Credit 1**

The course covers biological concepts including evolution, population ecology, cellular and molecular biology and genetics using a mathematical modeling and biochemical approach. Laboratory work includes experimentations, biological chemistry and microscopy. Students will be prepared for state testing and Advanced Placement Biology. *Prerequisite: 85 or better in Integrated Science, 85 or better in Algebra I, or teacher consent.*

AE 1, 2, 3

**418 Honors Chemistry****Credit 1**

Honors Chemistry is offered for highly motivated, academically oriented students. This fast-paced course utilizes scientific methodologies, applies mathematic and scientific principles, and emphasizes the integrated nature of the physical sciences. Content includes an introduction to chemistry (terminology and measurements), matter and change, atomic structure, electron arrangement, periodic table trends, bonding, chemical reactions and equations, stoichiometry, behavior of solids, liquids and gasses, nuclear chemistry acids and bases, and electrochemistry. Laboratory work is designed so that the student can develop useful lab skills and the ability to think analytically. *Prerequisite: Completion of integrated Science. A grade of 80 or better in Algebra II or Geometry and 80 or better in CP or Honors Biology. Exceptions require teacher consent.*

**461 Honors Physics****Credit 1**

Students will explore the laws of nature including forces and motion, electricity and magnetism, and energy. Laboratory work is designed to develop the ability to think critically and quantitatively. Knowledge of algebra and basic trigonometry is required for the course. **Prerequisite: Successful completion of Honors Algebra II is required. Enrollment in Pre-Calculus is recommended.**

AE 2, 3

**470 Honors Anatomy & Physiology****Credit 1**

This course is a comprehensive study of the structure and function of the human body, its tissues, organs and systems. Animal dissections will be conducted to observe anatomical structure, and physiological experiments will be done to demonstrate function. Comparisons to anatomy of other vertebrates will be included where possible. This course is designed for students interested in careers in the medical field. There is an expectation of students completing a summer assignment that will be due the first day of school. **Prerequisite: Successful completion of Integrated Science as well as a grade of 80 or better in Biology. Successful completion of Algebra II is required. Completion of College Prep Chemistry or concurrent enrollment in Chemistry is highly recommended.**

AE 2, 3

**423 College Prep Integrated Science****Credit 1**

College Prep Integrated Science is the Freshman Academy science course that introduces students to the foundational concepts in science using an interdisciplinary approach to prepare students for their additional course work in science. Integrated Science includes Earth and Space Science and Physical Sciences with topics including Earth's Place in the Universe, Earth's Systems, Earth and Human Activity, Matter and Interactions and Energy.

AE 1, 2, 3

**401 College Prep Biology****Credit 1**

The course covers foundation biological concepts including evolutionary development of plants, animals, molecular biology and genetics. Laboratory work includes inquiry based experimentation, biological chemistry and microscopic examination of organisms. CAPT preparation occurs through labs and classroom activities.

AE 1, 2, 3

**405 College Prep Forensic Science****Credit .5**

Students will employ scientific principles used in criminal investigation. Lecture and hands-on labs will be employed in the course to explore various aspects of science applied to law. **Prerequisite: Successful completion of Integrated Science and/or Biology concurrently, or teacher recommendation.**

AE 1, 2, 3

**420 Chemistry I College Prep Chemistry****Credit 1**

Chemistry is designed to provide the student with a thorough knowledge of major chemical concepts. Topics covered include chemical theories, atomic structure, bonding, reaction equations, stoichiometry, states of matter, acid/base and reduction/oxidation reactions, and an introduction to organic and biological chemistry. Laboratory work is designed so that the student can develop useful lab skills and the ability to think analytically. **Prerequisite: Completion of Integrated Science. Concurrent enrollment or completion of Algebra II or Geometry, and 75 or better in CP or Honors Biology. Exceptions will require teacher consent.**

AE 2, 3

**425 College Prep Environmental Science****Credit .5**

Environmental Science is a course designed to give a comprehensive introduction to environmental science and environmental issues affecting our world. Students will use multidisciplinary approach to explore the scientific field and topics effecting our environment. Topics covered include global warming and climate change, ecological issues, land use, and water issues. The course involves hands-on activities, research, and cumulative final presentation. **Prerequisite: Successful completion of Integrated Science and/or Biology concurrently, or teacher**

**recommendation.**

AE 1, 2, 3

**431 College Prep Anatomy and Physiology**

**Credit 1**

This course is a comprehensive study of the structure and function of the human body systems including Integumentary system, Skeletal system, Muscular system, Nervous system, and Reproductive system. This course also focuses on the major diseases associated with the systems. Comparisons to anatomy of other vertebrates will be included where possible. Animal dissections may be conducted to observe anatomical structure. This course is designed for students with interest in the medical field.

**Prerequisite: Successful completion of Integrated Science and Biology or teacher consent. Completion of College Prep Chemistry or concurrent enrollment is highly recommended.**

AE 1, 2, 3

**441 College Prep Marine Science**

**Credit .5**

This course is offered as an elective to 11th and 12th graders or students who have successfully completed Biology. The course is an introduction to the study of oceanography including geological, physical and biological oceanography. Marine Science requires students to carry out a variety of investigations, presentations and reports individually and in small groups in learning topic material. **Prerequisite: Successful completion of Integrated**

**Science and/or Biology concurrently, or teacher recommendation.**

AE 1, 2, 3

**450 College Prep Introduction to Meteorology**

**Credit 1**

Introduction to Meteorology is a course designed to introduce students the world of weather. In this class, students will use the WeatherBug network and the new weather station on top of the school to get accurate weather data in order to understand the weather and climate of the region. Students will explore topics such as earth/atmosphere interactions, seasons, and their impacts on earth, cloud development, and meaning, forms of precipitation, weather phenomena, climate change and weather forecasting. This class is designed to help students understand the world around them in an interactive, real world application. **Prerequisite: Successful completion of Integrated Science**

**and Biology**

AE 1, 2, 3

**460 College Prep Physics**

**Credit 1**

Physics will introduce the student to the foundation principles of classical physics. Students will engage in a rigorous quantitative study of forces, motion, vector analysis, mechanics and electromagnetism. Laboratory work is designed to acquaint the students with physical principles and to develop the ability to think critically about the quantitative relationship considered. **Prerequisite: Successful completion of Algebra II is required, and**

**enrollment in Pre-Calculus is recommended**

AE 1, 2, 3

**374 College Prep Science in History**

**Credit .5**

Science in History is a full year course that is taught in an "A/B" schedule with cooperating Science and Social Studies teachers. The course will focus on the effect that scientific advancements have had on specific historical events and/or the human condition as a whole. The science portion of the class will focus on the scientific principles behind specific scientific advancements. A heavy emphasis will be placed on deeper study of scientific concepts covered in lesser detail in the students' previous science courses. Completion of this course will provide .5 Social Studies and .5 Science elective credits. This course has a significant writing component.

**Prerequisite: Junior/Seniors only**

AE 1, 2, 3, 4 / SE 1, 2, 3

**427 Academic Integrated Science****Credit 1**

Academic Integrated Science is the Freshmen Academy course that introduces students to foundational concepts. Integrated Science includes Earth and Space Science and Physical Sciences with topics including Earth's Place in the Universe, Earth's systems, Earth and Human Activity, Matter and Interactions and Energy. The math requirements for this course align with the Pre-Algebra mathematics course. Enrollment in Academic Integrated Science is by teacher recommendation, concurrent enrollment in Pre-Algebra is recommended but not required.  
AE 1, 2, 3, 4 / SE 1, 2, 3

**402 Academic Biology****Credit 1**

The course covers biomolecules of life, cellular structure and organization, genetics, evolutionary development of organisms, and our role in an ever changing ecosystem. Laboratory work includes experimentation, biological chemistry, and microscope examination of organisms. Standard Test preparation occurs through labs and classroom activities.

AE 1, 2, 3, 4 / SE 1, 2, 3

**417 Chemistry in the Community****Credit 1**

ChemCom is a topics based chemistry course that explores chemical concepts in the context of everyday life and current topics. Students will investigate the role chemistry plays in their personal and professional lives, use chemistry knowledge to make informed decisions about issues involving science and technology. Laboratory experiments will be emphasized. ChemCom has a reduced emphasis on mathematics. **Prerequisite: Successful completion of Integrated Science and/or Biology concurrently or teacher recommendation.**

AE 1, 2, 3

**428 Academic Anatomy & Physiology****Credit 1**

In this course students will investigate the structure and function of the human body. Throughout each unit students will study related areas of the body including the Integumentary system, Skeletal system, Muscular system, Nervous system, and Reproductive system as well as the major diseases associated with each system. Research, critical thinking and laboratory skills are required to successfully complete this course. Academic Anatomy & Physiology has a reduced emphasis on math and chemistry.

**Prerequisite: Successful completion of Integrated Science and Biology or teacher consent.**

**432 Academic Physical Science****Credit 1**

This course is an introduction to fundamentals of physical science including motion, forces, energy, and electromagnetism. Lab activities and demonstrations allow students to experience aspects of the physical laws of nature as they learn. **Prerequisite: Successful completion of two science credits and completion of Algebra I**

AE 1, 2, 3

## WORLD LANGUAGE DEPARTMENT

504	Honors French IV	Credit 1
505	Honors French V	Credit 1
534	Honors Spanish IV	Credit 1
535	Honors Spanish V	Credit 1

501	College Prep French I	Credit 1
502	College Prep French II	Credit 1
503	College Prep French III	Credit 1
531	College Prep Spanish I	Credit 1
532	College Prep Spanish II	Credit 1
533	College Prep Spanish III	Credit 1

### **504 Honors French IV**

**Credit 1**

Students will deepen their knowledge of advanced grammar concepts, French culture, and French literature. The attainment of effective communication skills, both written and oral will be emphasized. The program uses a variety of technological components to provide practice for increased proficiency. Daily homework is an essential part of this course. **Prerequisite: French III**

AE 1

### **505 Honors French V**

**Credit 1**

French V is an advanced course combining literary and conversational activities, as well as grammar. Emphasis is placed on improving the comprehension, speaking, reading and writing skills of the students. There will be group discussions on selected readings and French movies. The program uses a variety of technological components to provide practice for increased proficiency. Daily homework is an essential part of this course. **Prerequisite: French**

**IV**

AE 1

### **534 Honors Spanish IV**

**Credit 1**

In Spanish IV students will deepen their knowledge of advanced grammar concepts, Spanish-speaking culture, and Latin American literature. The attainment of effective communication skills, both written and oral will be emphasized. The program uses a variety of technological components to provide practice for increased proficiency. Daily homework is an essential part of this course. **Prerequisite: Spanish II**

AE 1

### **535 Honors Spanish V**

**Credit 1**

Spanish V is an advanced course combining literary and conversational activities, as well as grammar. Emphasis is placed on improving the comprehension, speaking, reading and writing skills of the students. In this class, students will also learn about the geography of Spain and study Spanish history through its art. Selected readings of Spanish literature include a study of The Quixote. The program uses a variety of technological components to provide practice for increased proficiency. Daily homework is an essential part of this course. **Prerequisite: Spanish IV**

AE 1

### **501 College Prep French I**

**Credit 1**

French I uses an audio-lingual approach to learning the elements of French sentence structure and grammar through the use of dialogues and pattern drills. Correct pronunciation College Prep vocabulary, and the essential points of grammar are taught. The use of CDs, interactive videos and oral-paired activities are used to enhance listening and speaking skills. On-line resources are utilized to further develop language skills. Students learn to read, comprehend and write short passages in French. Culture is integrated into the course. Daily homework is an essential part of this course.

AE 1

**502 College Prep French II****Credit 1**

French II reviews and expands upon the basic vocabulary and grammar structures covered in French I. The study of the present tense is completed and the past tense is introduced. Correct pronunciation, vocabulary, and essential points of grammar are taught. The use of CDs, interactive videos, and oral-paired activities are used to enhance listening and speaking skills. On-line resources are utilized to further develop language skills. Students produce short compositions in French. Culture is integrated into the course. Daily homework is an essential part of this course. **Prerequisite: French I**

AE 1

**503 College Prep French III****Credit 1**

In French III more complex grammar and vocabulary are taught. Communication skills are expanded upon. The program uses a variety of technological components to provide practice for increased proficiency. Cultural elements and projects are integrated into the course. Daily homework is also an essential part of this course.

**Prerequisite: French II**

AE 1

**531 College Prep Spanish I****Credit 1**

Spanish I uses an audio-lingual approach to learning elements of Spanish sentence structure and grammar through the use of dialogues and pattern drills. Spanish I concentrates on self-expression in the present tense. Correct pronunciation, vocabulary, and essential points of grammar are taught. The use of CDs, interactive videos, and oral-paired activities are used to enhance listening and speaking skills. Students learn to read, comprehend, and write short passages in Spanish. Daily homework is an essential part of this course.

AE 1

**532 College Prep Spanish II****Credit 1**

Spanish II reviews and expands upon the basic vocabulary and grammar structures covered in Spanish I. The study of the present tense is completed and the past tense is introduced. Correct pronunciation, vocabulary, and essential points of grammar are taught. The use of CDs, interactive videos, and oral-paired activities are used to enhance listening and speaking skills. Students produce short compositions in Spanish. Culture is integrated into the course.

Daily homework is an essential part of this course. **Prerequisite: Spanish I**

AE 1

**533 College Prep Spanish III****Credit 1**

In Spanish III more complex grammar and vocabulary are taught. Communication skills are expanded upon. The program uses a variety of technological components to provide practice for increased proficiency. Cultural elements and projects are integrated into the course. Daily homework is also an essential part of this course.

**Prerequisite: Spanish II**

AE 1

## BUSINESS & FINANCE DEPARTMENT

609	College Prep Business & Personal Finance	Credit 1
611	College Prep Accounting I	Credit 1
612	College Prep Accounting II	Credit 1
613	College Prep Microsoft Office I	Credit .5
614	College Prep Microsoft Office II	Credit .5
633	College Prep Business Law/ Economics (Not Offered in 2019-20)	Credit 1
636	College Prep Marketing (Not Offered in 2019-20)	Credit 1
637	Career Exploration	Credit .5
638	Innovative Software Exploration	Credit 1
640	College Prep Introduction to Business	Credit 1
641	College Prep Web Design	Credit 1

### **609 College Prep Business & Personal Finance**

**Credit 1**

This course provides students with the informational and decision making skills necessary to manage their own personal finances. Real-world applications will give students further insight into why wise financial management is important to both personal and business success. Students will be introduced to the personal issues to consider when choosing and planning on a career. This course is offered to grade 11 & 12 students. *With a recommendation from their guidance counselor, grade 10 students may take the course.*

AE 1, 2, 3 / SE 1, 3

### **611 College Prep Accounting I**

**Credit 1**

This course provides students with an understanding of the basic accounting principles and procedures for recording transactions and preparing financial statements. CP Accounting I presents the accounting cycle for a proprietorship and a partnership. Students will complete a business simulation and apply technology to increase their understanding of the concepts. College Career Pathways students receive QVCC college credit upon successful completion of CP Accounting I & II. This course is offered to 11<sup>th</sup> and 12<sup>th</sup> grade students. This course counts as a math credit.

*Prerequisite: Algebra I, Geometry & Intermediate Algebra or Algebra II concurrently*

AE 1, 2, 3 / SE 1, 3

### **612 College Prep Accounting II**

**Credit 1**

This course focuses on the application of the principles and concepts learned in CP Accounting I with an emphasis on managerial accounting, cost accounting, and financial analysis. CP Accounting II is an advanced course designed to provide the knowledge of business procedures to students interested in continuing their education in accounting or a business related field, or for entry into the job market upon graduation. College Career Pathways students receive QVCC college credit upon successful completion of CP Accounting I & II. This course is offered to 11<sup>th</sup> and 12<sup>th</sup> grade students. This course can be used as a Math elective credit.

*Prerequisite: Students must successfully complete CP Accounting I before taking this course.*

AE 1, 2, 3 / SE 1, 3

### **613 College Prep Microsoft Office I**

**Credit .5**

Microsoft Office I is a comprehensive course that prepares students for the use of industry standard computer operations and applications utilizing the functions and features of Word and Excel. Keyboarding speed and accuracy, and concentrations will be developed throughout the course. An emphasis on formatting documents for effective communication is included. College Career Pathways students receive QVCC college credit upon successful completion of Microsoft Office I & II. \*\*

AE 1, 2, 3 / SE 1, 3



**614 College Prep Microsoft Office II****Credit .5**

Microsoft Office II prepares students for the use of industry standard computer applications utilizing the functions and features of Access, PowerPoint and Publisher. This course includes an integrated project utilizing Word, Excel, Access, PowerPoint and Publisher. College Career Pathways students receive QVCC college credit upon successful completion of Microsoft Office I & II. Prerequisite: Students must successfully complete Microsoft Office I before taking this course.

AE 1, 2, 3 / SE 1, 3

**633 College Prep Business Law/ Economics****Credit 1**

This course is designed to give 11th and 12th graders an orientation to business law and economics. Business Law topics include a study of the legal system; law in action, crimes, and torts; contract law and purchase and sales agreements. Economic topics include money, credit, and banking, national income, savings and investment, and current economic issues. Students participate in the Stock Market Game.

AE 1, 2, 3 / SE 1, 3

**636 College Prep Marketing****Credit 1**

This course will cover a wide range of topics such as market analysis and segmentation, types of consumers, promotion, buying, pricing, distribution, trends in modern marketing, and careers in marketing. Marketing theory as well as application will be presented to give a solid understanding of the different roles that marketing plays in retail, wholesale, service, and manufacturing companies. This course is offered to 11th and 12th graders.

AE 1, 2, 3 / SE 1, 3

**637 Career Exploration****Credit .5**

This course provides students with the opportunity to participate in multiple job shadows with local businesses/ organizations. Partnerships between the student and the host facility will provide students with an authentic experience focusing on career exploration in the student's chosen career cluster. Upon conclusion of the partnership opportunities, students will be required to develop reflective portfolios demonstrating research, communications, written, and oral presentation skills. This course is offered to grade 11 & 12 students.

AE 1, 2, 3 / SE 1, 2, 3

**638 Innovative Software Exploration****Credit 1**

This course will allow students to explore new innovative websites that will develop student skills in researching, presentations, timelines, cloud-based storage, electronic correspondence, portfolios, and other emerging

technology. Students will develop essential Century 21<sup>st</sup> skills for recognizing types of media/technology to use for various projects in their education and future careers. This will help enhance students employability in a diverse workplace. Students will work on the school website and learn the skills needed to create web design updates and conduct meetings. This course is offered to 10th, 11th and 12th graders

AE 1, 2, 3 / SE 1

**640 College Prep Introduction to Business****Credit 1**

Introduction to Business is an overview of business in the United States including limited exploration of international market connections. The emphasis is on the basic operation and financing of businesses and the legal, economic, and social environment in which they exist and operate. College Career Pathways students receive QVCC college credit upon successful completion of this course.

**641 College Prep Web Design****Credit 1**

Students in this course will learn the fundamentals of HTML5 and CSS3 to create web pages and ultimately combine them into an organized web site. Students will learn to code HTML and CSS using a basic text editor in order to experience and understand the construction of HTML tags and CSS style selectors. College Career Pathways students receive QVCC college credit upon successful completion of this course.

# VISUAL ARTS DEPARTMENT

713	Advanced Placement Studio Art	Credit 2
711	Art Foundations: 2 Dimensional Design & 3 Dimensional Design	Credit 1
712	Drawing & Painting	Credit 1
725	Intro to Pottery: Hand Building/Beginning Wheel	Credit 1
726	Advanced Pottery & Sculpture	Credit 1

## **713 Advanced Placement Studio Art**

**Credit 2**

AP Art is recommended for juniors and seniors who have taken 711 Art Foundations: 2 Dimensional Design & 3 Dimensional Design and higher level courses in drawing and painting or pottery and sculpture. This is a double block, yearlong course. Advanced Placement in Studio Art is being offered in 2 dimensional design, 3 dimensional design and drawing for students who can make the commitment to develop a strongly executed portfolio in one concentration. The student chooses one area to develop over the course of a year. Students interested in AP Art can discuss the course syllabus and requirements with the instructor before selection. Students must be motivated and self-driven with good time management skills. **Prerequisite: Successful completion of Art Foundations, other**

**high level art courses**

AE 2, 3, 4 / SE 2

## **711 Art Foundations: 2 Dimensional Design & 3 Dimensional Design**

**Credit 1**

Hands-on: exploring color, bookmaking, drawing and printmaking in a variety of art media such as markers, oil pastels, charcoal, acrylics and graphite and printmaking. This course is a prerequisite for all other art courses. Students will learn and utilize the artist tools of elements and principles of design through hands-on art making projects. Basic drawing using line, shading, proportion, space and organization is emphasized through hands-on art making projects. Creative, individual expression is also emphasized. This course is also the foundation course for Pottery and Sculpture and is focused on problem solving in construction. It is a hands-on course. Students will be able to design and build a variety of abstract 3-D forms and generate multiple solutions with materials such as paper, cardboard, foam core, wood and recyclables. Students will exercise their creative thinking skills. Assessment and critique will focus on the process.

AE 3, 4 / SE 2

## **712 Drawing & Painting**

**Credit 1**

In this hands-on studio course drawing techniques and art media which were introduced in 2 Dimensional Design/ Drawing Foundation will be further developed. Topics such as portrait and figure studies will be included. Perception through observation, the use of the imagination, creative, and individual expression in developing your artistic voice will be emphasized. Students will also be highly encouraged to do research art artist that inspire their own art making processes. Students will also be required to work with inspiration from art historical context.

**Prerequisite: Successful completion of Art Foundations**

AE 2, 3, 4 / SE 2 / CE 1

## **725 Intro to Pottery: Hand Building/Beginning Wheel**

**Credit 1**

Students will design and employ hand building techniques work to construct a variety of functional vessels. Techniques include slab, coil, pinch pot, by using additive, subtractive and combinative processes. Students will create wheel thrown bowls on the pottery wheel. Techniques for glazing/staining will be applied. Students are required to complete a short research paper connecting culture and time period with their art work. This course is a prerequisite for Advanced Pottery Responsible work habits and team works are essential. Service projects are in strong component of this course as well as participation in the Empty Bowl Project. **Prerequisites: Successful**

**completion 2 Dimensional Drawing/ 3 Dimensional Design Foundation**

AE 2, 3, 4 / SE 1, 2, 3

**726 Advanced Pottery & Sculpture****Credit 1**

Students who have successfully completed Intro to Pottery will be able to design and fine tune techniques explored in Intro to Pottery. The students will focus on the process of wheel throwing as a means to construct a variety of larger functional pots. Students will work independently as well as function as part of a team. Historical/cultural references are used for inspiration and instruction. The student is required to complete a short summary paper.

Special projects include the “empty-bowl” project.

AE 2, 3, 4 / SE 1, 2, 3 / CE 1

# MUSIC DEPARTMENT

758	Concert Band	Credit 1
759	Symphonic Band	Credit 1
760	Marching Band	Credit .5
766	Concert Choir	Credit 1
768	Chamber Choir	Credit 1
775	Chorale	Credit 1
776	Electronic Music	Credit .5
780	Jazz Band	Credit 1
781	Piano and Fundamentals of Music	Credit .5
782	Concert Percussion Ensemble	Credit 1
795	Music Theory 1	Credit .5
796	Advanced Placement Music Theory	Credit 1
798	Symphonic Percussion Ensemble	Credit 1

## **758 Concert Band**

**Credit 1**

This year round ensemble is designed to enhance and improve student's music reading and proficiency on a woodwind, brass, or double reed instruments. Focus will be on developing sight reading skills, playing scales, understanding standard music notation, performing musical expressions and performing with appropriate ensemble skills. Students must have a strong interest in or already have developed minimal skill on a musical instrument. As well as learning ensemble skills, students will also spend ample time in sectionals. Attendance at school and outside of school performances is mandatory. Students will continue to enroll in this band until musical proficiency is met, allowing the student to enroll in the next level ensemble (Symphonic Band). **This course is for freshmen. Upon director approval, students may move to Symphonic Band.**

AE 1, 4 / SE 1, 2, 3 / CE 1

## **759 Symphonic Band**

**Credit 1**

This ensemble designed for the advanced woodwind, brass or double reed musician. Basic music literacy and performance skills are required. Students enrolled in this course will focus on advanced band repertoire, sight reading skills, and enhance their ensemble skills. Students will have the opportunity to perform in numerous settings such as school concerts, football games, parades, and other community events. Attendance at school and outside of school performances is mandatory. **Prerequisite: Concert Band and recommendation of this ensemble's director through an audition.**

AE 1, 4 / SE1, 2, 3 / CE 1

## **760 Marching Band**

**Credit .5**

This fall season ensemble is designed for any junior or senior interested in marching woodwind, brass, percussion or color guard. The focus of this ensemble is to develop a field show for competitive performances and play music during athletic games. Students may also perform in community events such as parades. Students are required to attend weekly rehearsals after school, home football games, competitions, parades and other community events posted in the ensemble's calendar. Students will learn and memorize music, which will be put to a field show or used in a parade setting. Attendance at school and outside of school performances is mandatory.

AE 1, 4 / SE 1, 2, 3 / CE 1

## **766 Concert Choir**

**Credit 1**

This ensemble is designed for the beginning singer, and no previous experience is necessary. Students in this class will learn proper vocal technique and the basic music literacy skills needed to be an independent musician. As a performing group, the Concert Choir will also focus on beginning ensemble skills such as sound balance, blend, and intonation, as students learn and perform a varied repertoire of music from various time periods and cultures. This ensemble will perform publicly at least three times during the school year, and attendance at these scheduled

events is mandatory. Students will continue to enroll in this choir until musical proficiency is met, allowing the student to enroll in the next level ensemble (Chorale).

AE 1, 4 / SE 1, 2, 3 / CE 1

### **768 Chamber Choir**

**Credit 1**

This ensemble is an advanced level performing ensemble that requires students to possess a strong grasp of proper vocal technique and music literacy. The Chamber Choir will focus on advanced performance and ensemble skills as students learn and perform a varied repertoire of music. This ensemble will perform at numerous concerts and outside events throughout the year, and attendance at these events is mandatory. **Prerequisite: Students that have completed one full year of either Concert Choir or the Chorale may audition for this ensemble in May of the previous year.**

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **775 Chorale**

**Credit 1**

This ensemble is intended for the proficient singer, and basic music literacy and performance skills are required. Students in this class will focus on more advanced music literacy skills and performance technique. Basic music theory concepts and sight-reading skills will be covered throughout the course. As a performing group, the Chorale will continue to focus on ensemble skills such as sound balance, blend, and intonation, as students learn and perform a varied repertoire of music from various time periods and cultures. This ensemble will perform publicly at least three times during the school year, and attendance at these scheduled events is mandatory. **Prerequisite: Concert Choir, or recommendation of current choral director with consent of this ensemble's director.**

AE 1, 4 / SE 1, 2, 3 / CE 1

### **776 Electronic Music**

**Credit .5**

This course is an introduction to the use of Mac computers in the creation of music. No prior classes are needed, but some background in music is preferred. Students will work with software that allows them to use pre-recorded and self-recorded audio files to arrange and create music. Students will work to compose their own music, as well as work on scoring short movies.

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **780 Jazz Band**

**Credit 1**

This ensemble designed for the advanced woodwind, brass, and rhythm musicians. Basic music literacy and performance skills are required. Students enrolled in this course will focus on advanced jazz and big band repertoire, sight-reading skills. Students will have the opportunity to perform in numerous settings such as school concerts, jazz contests, and other community events. **Attendance at school and outside of school performances is mandatory.**

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **781 Piano and Fundamentals of Music**

**Credit .5**

This course is designed as an introduction to piano technique and basic music theory skills. Students will develop basic piano skills as they work independently on proper piano technique. Students will also learn music theory concepts, such as music reading skills, beat and meter, chords, chord structure, and musical analysis. Students will also perform a recital at the end of the semester.

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **782 Concert Percussion Ensemble**

**Credit 1**

This ensemble for freshmen and sophomores is designed to provide a challenging and exciting performing ensemble for beginning to young percussionists in the concert band. They will perform with the band ensemble at concerts. Students will learn to play music using basic rudiments and simple patterns on

keyboard percussion. Students will also have the opportunity to perform in small ensembles with a variety of percussive instruments along with the opportunity to perform with other ensembles. **Attendance at school and outside of school performances is mandatory.**

AE 1, 4 / SE 1, 2, 3 / CE 1

### **795 Music Theory 1**

**Credit .5**

In this course, students will begin the study of basic music theory skills and practices. Students will learn basic music reading, notation, and concepts such as intervals and chords, as well as basic sight singing and analysis techniques.

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **796 Advanced Placement Music Theory**

**Credit 1**

AP Music Theory is equivalent to a first-year collegiate level music theory course, introducing the student to both fundamental and more advanced skills such as musical form, harmonic progressions, music analysis, and basic music compositional skills. Aural skills such as melodic and harmonic dictation, sight singing and listening/evaluating are also important facets of this course. The student's ability to read and write musical notation is fundamental to their success in the course. **Prerequisite: Piano and Fundamentals of Music, or consent of the**

**instructor.**

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

### **798 Symphonic Percussion Ensemble**

**Credit 1**

This ensemble is designed to provide upperclassmen a challenging and exciting performing ensemble for percussionists in the symphonic band. They will perform with the band ensemble at concerts and alone at the school concerts. This course is available through audition only. Students will also have the opportunity to perform in small ensembles with a variety of percussive instruments along with the opportunity to perform with other ensembles. **Attendance at school and outside of school performances is mandatory.**

AE 1, 2, 3, 4 / SE 1, 2, 3 / CE 1

## FAMILY AND CONSUMER SCIENCES

806 Basic Foods Credit 1

811 Advanced Foods Credit 1

### **806 Basic Foods**

**Credit 1**

This semester course provides an overview of foods and nutrition. Food fundamentals including use of the kitchen, cooking terms, balancing meals, and basic nutrition are covered in the first half of the course. The second half of the course may explore foreign or cultural cookery, and preparation of yeast bread, meats, etc. Practical usage of kitchen tools for efficiency, shopping knowledge and types of table service are included. **This course is available to 10th, 11th and 12th graders.**

AE 1, 2, 3, 4 / SE 1, 2, 3, 4 / CE 1, 2

### **811 Advanced Foods**

**Credit 1**

This is a course that includes meal preparation with some quantity cookery, foreign or cultural cookery, and preparation of yeast bread, cakes, meats, etc. Practical usage of kitchen tools for efficiency, shopping knowledge and types of table service are studied. This course also provides students an opportunity to investigate new techniques and methods for food preparation. Emphasis is on the organization of time and equipment, use of time-saving small appliances, selection and the care and use of kitchen equipment. Demonstration by class members is a primary activity. **Successful completion of Basic Foods is required.**

AE 1, 2, 3, 4 / SE 1, 2, 3, 4 / CE 1, 2

# TECHNOLOGY EDUCATION

753	Introduction to Photography	Credit .5
754	Photography	Credit 1
756	Photography II	Credit 1
878	Honors Introduction to Engineering I	Credit 1
879	Honors Introduction to Engineering II	Credit 1
845	Architectural Construction	Credit 1
848	Basic Woodworking	Credit 1
849	Advanced Woods	Credit 1
862	College Prep Architectural Drafting	Credit 1
864	College Prep Computer Assisted Drafting I (CAD I)	Credit 1
866	College Prep Computer Assisted Drafting II (CAD II)	Credit 1
868	Digital Design & Media	Credit 1
755	Media Broadcasting	Credit 1
869	Digital Printing	Credit 1
874	Inventions	Credit 1
875	Computer Animation I	Credit 1
877	Computer Animation II	Credit 1
884	Introduction to Manufacturing and Blueprint Reading	Credit 1

## **753 Introduction to Photography**

**Credit .5**

This half year foundation course will provide students with an introduction to the medium of photography and its practice today. Students will develop their visual skills and learn about the elements of composition in photography through hands-on projects. Students will also explore the essential features of digital cameras and how to use them properly. The bulk of the class will concentrate on the practice of photography, emphasizing the organization and communication of visual ideas. Students will also be given an overview of the technical aspects of images, file formats, and digital workflow. Adobe Photoshop editing software will be introduced and students will build a basic portfolio.

AE 1, 2, 3, 4 / SE 2, 3 / CE 1

## **754 Photography I**

**Credit 1**

This is a full year course designed to teach students to communicate more effectively using the medium of photography. Advanced digital photography techniques will be introduced and students will continue to build their digital portfolio. Focus in the course will be on the various styles of photography, ranging from still life and portrait photography to commercial work such as sports photography. Students will continue to gain experience in industry standard programs such as Adobe Photoshop. Students in Photography I will develop and expand their skills in producing both artistic and commercial photographs using digital DSLR cameras and equipment. In addition to shooting and printing assignments, we will be thinking about photography in writing assignments, research assignments, critique, and through the development and completion of a self-directed project in the spring. Classes will be enriched by visits from practicing professionals, field trips, and an ongoing survey of the history of photography. **Prerequisite: Intro to Photography or approval of teacher** and students will build a basic portfolio.

AE 1, 2, 3, 4 / SE 2, 3 / CE 1

## **756 Photography II**

**Credit 1**

This is an intermediate, yearlong course intended to cover the advancement of the digital photography portfolio, the basics of film photography and analog practices, as well as to develop a more well-rounded understanding of the practice and history of photography. Students will continue to produce projects and learn



advanced digital photography techniques while also introduced to analog photography. Analog photography will be defined by the practice of using SLR film cameras, learning to develop their own film, printing their images in a traditional black and white darkroom, and learning various alternative processes still used in photography today. This class is designed to allow students to refine their technical skills and abilities, expand their knowledge of photographic practice, photographic history, and further the development of each students' unique voice and artistic vision as a photographer. Students will continue to build a serious, college worthy portfolio. In addition to shooting and printing assignments, students will expand on their concepts of photography in writing and research assignments, critique, and through the development and completion of a longer, self-directed project in the spring semester. **Prerequisite: Photography I or approval of teacher** and students will build a basic portfolio.

AE 1, 2, 3, 4 / SE 2, 3 / CE 1

### **878 Honors Introduction to Engineering I**

**Credit 1**

Students will be introduced to the fields of engineering, design, graphics and comprehensive engineering projects. The use of machine tools, such as lathes, benders, lasers, welders and 3D printers will be some of the tools that are introduced during this course. Topics will include the mathematical concepts of sketching, charts, graphs, forces, energy, electrical circuits, mechanisms, materials testing, manufacturing technologies and fundamentals of engineering economics. Additionally students will divide their class time equally between mathematics and computer aided design (CAD). The mechanical drawing class will use various software (with the focus using Para Metric base modeling) to design, model, and reinforce the mathematical concepts listed above. **Prerequisite: Honors Algebra II or Algebra II with admission short essay that meets instructors' criteria.**

AE 2,3 / SE 2, 3

### **879 Honors Introduction to Engineering II**

**Credit 1**

A continuation of Introduction to Engineering involving further study of engineering topics as related to the mathematical and theoretical application of concepts discussed in part I. Completion of Part I only will provide 1 Tech Ed credit. Completion of Part I & II in sequence will provide 1 Tech Ed credit and 1 Math credit.

AE 2, 3 / SE 2, 3

### **845 Architectural Construction**

**Credit 1**

A continuation of the concepts and fundamentals learned in architectural drafting. Topics covered: Design, construction and framing techniques of exterior, interior walls and roofs; Flooring; Foundations; Site selection; Surveying; interior and exterior trim; millwork; safe building practices and tool use; residential building codes.

**Prerequisite: Architectural Drafting**

AE 1, 2, 3, 4 / SE 1, 3

### **848 Basic Woodworking**

**Credit 1**

This course is open to all students who wish to explore woodworking while in high school. The course will cover the use of hand and machine tools. A toy will be designed by each student. Later projects will be selected by the student from a central plan file and built for the students to keep.

AE 2, 3 / SE 2, 3

### **849 Advanced Woods**

**Credit 1**

This course is open to all students who have completed the basic woodwork course with a grade of 85 or better or with instructor's consent. The course is an extension of the basic woods course with studies directed toward finer detailed projects. More advanced joinery and raised panel construction will be explored. Lathe turning will also be covered in depth. Students can elect to "contract" work on a long term project outside of the scope of the course if conditions of project/contract are agreed upon by the instructor and student.

AE 2, 3 / SE 2, 3

### **862 College Prep Architectural Drafting**

**Credit 1**

This course covers the basic architectural fundamentals required to prepare plans for a single family residence. Topics covered include: floor plans, elevations, sections, details, perspectives, solar design and development, and

building codes. **Prerequisite: CAD I**

AE 1, 2, 3 / SE 2, 3

### **864 College Prep Computer Assisted Drafting I (CAD I)**

**Credit 1**

This course exposes the student to the current means of generating graphic images with computers and is designed as a prerequisite to any other drafting course. It provides an introduction to Mechanical, Architectural, and C.A.D. Topics covered include traditional board techniques, CAD overview, computer terminology, hardware descriptions and requirements, file manipulation and management, 2D and 3D geometric construction, symbol library creation, dimensioning, scaling, sectioning, plotting, detail, and assembly drawings. Students at times will have Individual Project Based Learning. Applying the skills learned, to bring a Design Task to completion.

AE 1, 2, 3 / SE 2, 3

### **866 College Prep Computer Assisted Drafting II (CAD II)**

**Credit 1**

This course is designed to expose the student to advanced CAD techniques. Using Auto CAD, REVIT, Inventor (parametric based modeling). Typical topics will include three dimensional drawing, solid modeling, rendering, and customizing Auto CAD. Students will at times have Group Project Based Learning. Applying the skills learned to bring a Design task to completion. Simulation of an engineering and design department; being responsible for an individual part of an assembly; meeting a deadline. **Prerequisite: C.A.D.I.**

AE 1, 2, 3 / SE 2, 3

### **868 Digital Design & Media**

**Credit 1**

This course introduces students to the various fields of graphic design, commercial art, digital design and media technologies and skills. The course utilizes the latest Adobe Creative Suite applications for graphic design, web design, digital video and audio projects, and various multimedia projects. Awareness of the career possibilities in graphic design and contemporary media is an important part of the course. A digital portfolio will be created at the end of each semester documenting student achievement and growth.

AE 2, 3, 4 / SE 1 / CE 1

### **755 Media Broadcasting**

**Credit 1**

This class is aimed at highly motivated Juniors and Seniors. It explores the interactivity and narrative of our digital world through the creation of audio and video projects. Students will expand their creative vocabulary in digital visual literacy with the development of digital storytelling, becoming proficient with capturing and manipulating images, sound, and video with our cutting-edge tools. Students integrate different media (text, images, sound, and video) into a seamless online environment developing an effective communication strategy to articulate one's individual design. From conceptualization, planning and visualization to the development of a digital portfolio, learning is enhanced by field trips and class visits where students are encouraged to establish their own perspective. **Prerequisite: Teacher Recommendation with successful completion of Digital Design & Media or Photography II**

AE 1, 2, 3, 4 / SE 2, 3 / CE 1

### **869 Digital Printing**

**Credit 1**

This class is aimed at highly motivated Juniors and Seniors. This course is held in the Print Lab for students who have successfully mastered skills acquired in Digital Design & Media. Students will design and print school projects using the latest Adobe Creative Suite with sign and apparel software and equipment. Students will experience workforce and higher education based preparation via individual and team-based design tasks. Projects include apparel design, screen printing, direct-to-garment printing, heat transfers, booklet printing, trimming, oversized digital printing, lamination of various media, and more. Students will be assessed through project review, portfolio review and peer assessment. **Prerequisite: Teacher Recommendation with successful completion of**

**Digital Design & Media**

AE 2, 3, 4 / SE / CE 1

**874 Inventions****Credit 1**

Highly motivated Juniors and Seniors students will be introduced to a wide variety of problems to solve in the form of design briefs. Once an understanding of a particular problem is achieved, students will be required to solve it through problem solving, critical thinking and research. As a designer of solutions, the student will be responsible for several rough designs and one final plan for a product. Final production of an invention to solve the particular problem will be expected. Students will learn skills in engineering, manufacturing, and design by problems presented in the design briefs.

AE 2, 3, 4 / SE 1 / CE 1

**875 Computer Animation I****Credit 1**

This course will use 3D Studio MAX as the main tool to explore 3D digital animation. Generate realistic characters and environments. Some of the characters found in popular computer games were created using 3D Studio MAX. Emphasis is placed on modeling techniques used to create objects and characters. Each student will produce short animations. The overall goal of this course is to generalize the study of the 3D world and to give students basic problem solving skills needed for continued use of these tools.

AE 2, 3 / SE 2, 3

**877 Computer Animation II****Credit 1**

Computer Animation II is the second course in the two-course computer animation sequence, focusing on advanced three-dimensional modeling and animation techniques, and preparing them for independent computer animation production work. Students will continue to develop their skills acquired in Computer Animation 1, including modeling, texturing objects, composing and lighting scenes, animating, dynamics, rendering, postproduction compositing, and explore advanced character modeling, rigging and animation techniques. Students will work, on individual and team projects, simulating actual workplace settings, producing computer animations and models.

**Prerequisite: CAD I**

AE 2, 3 / SE 2, 3

**884 Introduction to Manufacturing and Blueprint Reading****Credit 1**

Two important aspects of manufacturing and fabrication are reading and interpreting dimensions, tolerances, bend lines, and welding symbols in order to fabricate parts to the specifications on the blueprint. An individual must be skilled at visualizing a 3-dimensional structure from 2-dimensional figures and creating drawings, including hand sketches and orthographic projections. In this course, students complete classroom study and lab work, practicing identification of structural shapes, surface features, forming details weld positions, and weld symbols on actual blueprints. Lessons explore the relationship and coordination between blueprint draftsmen and fabricators.

AE 2, 3 / SE 2, 3

## PHYSICAL EDUCATION

900	Basic Physical Education	Credit .5
902	Personal Fitness	Credit .5
910	Elective Physical Education	Credit .5
931	Health Education	Credit .5
964	Life Occupational Skills	Credit 1

### **900 Basic Physical Education** **Credit .5**

Basic Physical Education is required for all freshman and sophomores. The semester course is .5 credits. The course must be taken twice. Once freshman year and again in sophomore year. Students are introduced to a variety of activities including team sports, individual sports, and the fitness room. Students are allowed to choose their activity on a daily basis. An AAHPERED physical fitness test is administered each semester.

SE 1, 2, 3, 4 / CE 2

### **902 Personal Fitness** **Credit .5**

This is an elective class for 11th and 12th graders who have completed 1 credit of Basic Physical Education. The class will meet 4 times per week for a semester. Students may participate in his/her workout plan including a combination of aerobic, strength, cardio-respiratory endurance and training activities. This class will focus on self-designed activities. **Prerequisite: 1 credit of Basic PE and must be an 11th or 12th grader**

SE 1, 2, 3, 4 / CE 2

### **910 Elective Physical Education** **Credit .5**

This is an elective class for 11th and 12th graders. This class will meet 4 times per week for a semester. This course will focus on lifetime sports such as volleyball, badminton, ping pong, golf, Frisbee. **Prerequisite: 1 credit of Basic PE and must be an 11th or 12th grader**

SE 1, 2, 3, 4

### **931 Health Education** **Credit .5**

This course is requirement for all students. The units covered are Health and Wellness, Human Growth and Development, Nutrition, First Aid, AIDS, Disease Prevention, Community and Consumer Health, Physical and Mental Health including youth suicide prevention, Substance Abuse Prevention, Dating Violence, Gender

Tolerance, and Safety and Accident Prevention

AE 1, 2, 3 / SE 1, 2, 3, 4

### **964 Life Occupational Skills** **Credit 1**

This course is designed to help the student prepare for the transition from school to the world of work. The student will develop appropriate work habits and behaviors, explore occupational interests and select appropriate occupational goals. The process of seeking, securing, and maintaining employment will be stressed. The students will participate in the "STEP" program and the school-based enterprise where appropriate. The course will meet the goals and objectives of the Individualized Educational Plan, (IEP) and Individualized Transition Plan, (ITP)

AE 1,3 / SE 1, 2, 3 / CE 1

# HEALTH OCCUPATIONS

935	College Prep Exploring Careers in Healthcare	Credit 1
936	College Prep Certified Nursing Assistant	Credit 1

## **935 College Prep Exploring Careers in Healthcare**

**Credit 1**

This introductory course will expose sophomore and junior students to a variety of health occupations in each of the following health careers pathways: *Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, Biotechnology Research and Development*

21st century health career skills and qualities, medical ethics, medical terminology, professional communication in the health industry and medical-legal issues are incorporated into the curriculum. Students considering a healthcare related career would benefit from taking this course.

AE 1, 2, 3 / SE 1, 2, 3

## **936 College Prep Certified Nursing Assistant**

**Credit 1**

A Registered Nurse will teach this State of Connecticut approved course. This course is designed for the senior student who is committed to becoming a Certified Nursing Assistant or wishes to continue his/her career aspirations while gainfully employed in the healthcare field as a CNA. This course is open to seniors first and then juniors. Class size is limited to 10 students.

Included in this course are classroom theory and a 70 plus hour mandatory clinical component, which will take place at The Villa Maria Nursing and Rehabilitation Community in Plainfield. Students must provide their own transportation to and from the clinical site; transportation is not available.

Upon completion of the course requirements, eligible students will take the two part state competency exam. The first part is a written test and assesses content knowledge; the second part is a practical demonstration of various nursing skills. Successful completion of both parts of the test is needed in order to obtain certification. Students are required to register with the State of Connecticut Nurse Aide Registry and then will be eligible for employment as a CNA.

Integrated into the curriculum are healthcare related math, reading, writing, vocabulary and science. The curriculum covers safety standards, infection control, professionalism, medical ethics, medical terminology, medical math, communication both written and oral, human behavior, nutrition, anatomy and physiology and diseases common to those living in a long-term care facility, as well as other topics. The skills that will be taught at the clinical site include but are not limited to: assisting with personal care and housekeeping, for example making beds, bathing, dressing, feeding, toileting, ambulating patients, and taking vital signs. Any classroom labs (skills) must be made up at the discretion of the instructor. All days at the clinical site are mandatory.

Teacher approval and 2 letters of recommendation from administration and a school counselor or teacher are required. Passing grades, regular school attendance and an exemplary conduct record are required for consideration. Students will not be allowed to attend the clinical portion if they are not receiving passing grades by mid-year.

Students will be encouraged to take the following additional courses on-line for certification:

- The Basic HIPAA Online Training Course- cost to be paid by the student (\$25.00)
- The OSHA 10-Hour General Industry (Healthcare) Training Course- cost to be paid by the student (\$25.00)

**Prerequisites: Honors Biology, Honors Algebra 2, Chemistry, Or \*with a grade of 85 or better: CP Biology\*, CP Algebra 2\*, Chemistry, Concurrent enrollment in CP Anatomy & Physiology is strongly recommended.**

AE 1, 2, 3 / SE 1, 2, 3





**STUDENT CREDIT WORKSHEET  
Plainfield High School 2018-2019**

**Course Selection Worksheet**

**Last Name** \_\_\_\_\_ **First Name** \_\_\_\_\_

**Please refer to the Program of Studies for course descriptions, graduation requirements and pertinent information. This is a work sheet for students and parents to select 8 credits and 3 alternate courses for the upcoming school year. Final schedules are dependent on recommendations and course availability.**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>	<b>Alternate Course</b>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
		<b>Total</b>	
		_____	

**Students must return this form, completed, to their School Counselor at the time of their scheduled appointment.**