

Plainfield High School

2023-2024



Program of Studies

105 PUTNAM ROAD
CENTRAL VILLAGE, CT 06332

Updated 7/14/2023

PLAINFIELD HIGH SCHOOL
2023-2024 PROGRAM OF STUDIES

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The Program of Studies is also available online at **phs.plainfieldschools.org** on the main page or under the **Parent** or **Student** tab, select **Program of Studies, 2023-24**.



Plainfield High School

105 Putnam Road Central Village, Connecticut 06332 (860) 564-6422
(860) 564-2116 Fax

Matthew Peel, Principal

Stacey Kelleher, Assistant Principal

Dear PHS Students and Parents:

On behalf of the faculty and staff at Plainfield High School, I am pleased to present you with the updated 2023-2024 Plainfield High School Program of Studies. The staff at PHS have worked hard to develop exciting and engaging course offerings to personalize the learning experience for every student. We are proud of our new course offerings, and we sincerely hope that the variety of courses offered at Plainfield High School meets every student's needs.

This Program of Studies is a resource that describes the many courses and programs offered at Plainfield High School. It will help you pursue your high school diploma and support you in achieving your life's goals. Please take the most challenging courses offered. The time and effort you spend in higher-level courses will pay great dividends when you graduate. The better prepared you are in high school, the more choices you will have when you graduate. Your life goals may change; however, success in these challenging and exciting courses will allow you to be prepared to follow your future dreams no matter what they may be. Please share this Program of Studies with your parents as you plan for your high school years and beyond.

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 various 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.

Please review the course selections carefully and make choices that will allow you to develop your talents and skills and achieve your dreams. 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!

Matthew Peel
Principal, Plainfield High School

Pride Honor Success



PLAINFIELD HIGH SCHOOL



The mission of Plainfield High School is

- *To promote academic excellence and personal development*
- *To provide rigorous instruction and high expectations*
- *To work in partnership with staff, families and the community*
- *To guide students in defining and pursuing a successful path to college, career and work readiness*
- *To cultivate lifelong learners and responsible, productive citizens*

Vision of The Plainfield High School Graduate



THE RESPONSIBLE CITIZEN

Demonstrates civic awareness and responsibility

Acts ethically and accepts responsibility for decisions and actions

Acts with empathy and kindness

Actively engages in and takes ownership of lifelong learning



THE INFORMED THINKER

Acquires and applies information across disciplines in real-world contexts

Reflects critically on learning and life experiences and seeks out opportunities to grow

Analyzes, evaluates, and challenges the veracity and validity from various sources

Demonstrates curiosity and imagination

Participates in career exploration and plans for the future



THE EFFECTIVE COMMUNICATOR

Speaks and listens effectively for a variety of purposes

Uses evidence and logic appropriately in communication

Uses a variety of modes of expression to share ideas and create well-crafted work

Collaborates effectively with others to develop new ideas and solutions



THE PROBLEM SOLVER

Applies relevant information and technology to solve problems

Generates thoughtful questions and hypotheses and develops a process to address them

Critically analyzes and evaluates data and information to draw conclusions

Perseveres even in the face of failure, obstacles and challenges

Identifies and applies specific, accurate, reliable information to make decisions



THE PREPARED PROFESSIONAL

Applies self regulation coping skills when faced with a difficult/stressful situation

Explores various careers of interest

Applies professional career/work soft skills during daily interactions

Demonstrates work related habits of reliability, punctuality, and employability

Develops self confidence and adaptability in academic and social situations

Appropriately interacts with higher authority in school and work

Administration

Matthew Peel, Principal
Stacey Kelleher, Assistant Principal

Art

Lindsey Demuth

Colyn Petre-Pion

Business and Finance

Carrie LaRoche, Faculty Coordinator
Lewis Calhoun

Barbeau, Gina

Cafeteria

Linda Schultz, Chartwells

Custodial Staff

Stephen Kennett, Lead Custodian
Dennis Corrente
Scott Savoie

Carroll Marcoux
David Kettle

English

Jason Greene, Faculty Coordinator
Blakeley DeRing
Valerie McNamara

Mindy Fennell
Savannah Marrish
Andrea Tsiakiris

Family & Consumer Science

Christen Carley

Library/Media

Mathematics

Ashley Wickham, Faculty Coordinator
Lewis Bengston
John DiGiacomo*

Raymond Murray
David Ewan

Music

James Flynn
Brian Stevenson

Emily Lattanzi

Nurse's Office

Susan Nagel, RN

Melissa Sears, LPN

Paraprofessionals

Deb Aubin
Lisa Cesana
Mary Jane LeBlanc
Christine Neal
Vera Starr
Melissa Robert

Eric Bialowas
Brenda Colbridge
Sherry Sawchuk
Joy Pomroy
Anne Walker
Robin Seaman

Kathy Casavant
Tricia LaFramboise
Stephanie Nadeau
Suzanne Smith
Fayth Lumpkins

Physical Education and Health

Thomas Hardy, Athletic Director
James Langlois

Jason Chaviaras

Responsive Support Program

Kathleen Silva

Sarah Mitchell

School Counseling Department/Career Center

Caitlyn Adler*
Janet Harmon, School Social Worker
David Willis, Faculty Coordinator
Terry Liebel, Career Center

Donna Belisle
Emily Covill
Michelle Laverty

School Security

Jeffrey Conger

Michael Rouillard

Science

Heather Eighme, Faculty Coordinator
Anita Japp
Stephanie Pye

Margot Hundt
Merrill Maben
Robert Springer

Secretarial Staff

Jessica Gaudreau, Guidance Office

Debrah LaBonte, Main Office

Paula Norgren, Attendance Office

Social Studies

Lisa Bastien, Faculty Coordinator
Russell Hart*
Kevin Mariano

Patrick Smith*
Jackson Wasielewski
Jon Zielinski

Special Education

Carolyn Holmy, Faculty Coordinator
Paul Kelley
Tara Shea

Matthew Lennon
Heidi Matczak *

Technology Education

Timothy Jordan, Faculty Coordinator
Lydia Mackela
William Treiss

Nicholas Bousquet
Clifton Taylor
Dan TenEyck

World Language

Rebecca Bourque, Faculty Coordinator
Justin Scott, Faculty Coordinator

Lynn Decker

**Indicates Freshman Academy Teacher*

PHS GRADUATION REQUIREMENTS

To graduate from Plainfield High School a student must earn **25 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**.

GRADUATION REQUIREMENTS	
English	4
Math	4
Science	3
Social Studies-Including Modern U.S. History and Civics	3
Physical Education	1
Health Education	1
World Language	1
CP Personal Finance (.5 cr.) *May be fulfilled by Advanced Personal Finance (1 cr.)	.5
Electives	6.5
* Two Humanities Electives-(1 cr.) Must be in Visual or Performing Arts	
* Two STEM Electives: Science, Technology, Engineering or Math	
Mastery Based Diploma Assessment	1
Total Number of Credits	25

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

Grade 10 = 5 credits

Grade 11 = 12 credits

Grade 12 = 17 credits

*H= Humanities, S= STEM, A=Arts

GRADES/MARKING SYSTEM

REPORT CARDS AND MARKING SYSTEMS: The school year is divided into four quarters for the purpose of issuing grades. 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 mid-way through each quarter. Special interim reports may be issued at any time during the quarter. Final grades are the average of first and second quarter grades. Progress Reports and Report Cards may be accessed electronically through Aspen by parents/guardians and students.

For additional details access the following link [ASPEN INFORMATION](https://phs.plainfieldschools.org/home) or you may access the school's website at <https://phs.plainfieldschools.org/home>.

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

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

WEIGHT	
Advanced Placement (AP)	2.00
ECE	1.75
Honors	1.50
College Prep	1.25
Academic	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: 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. The determination of valedictorian and salutatorian will be determined at that time. 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 semester-based course may be dropped with teacher/ counselor/parent approval and without penalty if done within the first 7 days of the school year/semester. Yearlong elective courses may be dropped within the first 10 days of the

school year. Dropping a course after this add/drop period is at the discretion of the principal. Student transcripts will indicate WP (withdraw passing) or WF (withdraw failing) for students dropping classes after the add/drop period.

CREDIT RECOVERY: Students may be eligible for credit recovery upon failing a course. The on-line courses are a monitored, self-paced standards based interactive curriculum program. A referral to the program will be facilitated by the student's counselor. The course may be completed after school in the library or in the student learning center. All assessments must be completed at the school. All credit recovery courses should be completed within the school year. If a student does not complete the course during the school year, they will be enrolled in summer school. Seniors must complete all credit recovery courses by June 1st.

GENERAL GUIDELINES

1. Students may register for a maximum of 8 credits per year.
2. A student must pass each course in order to receive credit.
3. The Administration reserves the right to withdraw any course for which there is insufficient registration.
4. A selection means commitment. **PLAN CAREFULLY**; consult your parents/guardians and school counselor in planning your program.
5. Schedules will not be changed to facilitate senior privilege.

PROGRAM PLANNING GUIDELINES

FRESHMAN ACADEMY: The PHS freshman 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 in need of academic support, after-school provision is offered to all students, (inquire with class teacher) along with late bus transportation home on Tuesdays and Thursdays.

PLANNING TO ATTEND COLLEGE AFTER HIGH SCHOOL:

Students who are considering applying to college are encouraged to take the following courses noted below. Most colleges require 3 years of study of the same world language. This includes some business and technical schools. This is a guideline: See your school counselor regarding your individual interests and future plans.

Grade 9

Honors/College Prep English I
Honors/College Prep Civics
Honors/College Prep Biology
Honors/College Prep Algebra I/Geometry
College Prep World Language I

Grade 11

ECE/Honors/College Prep English III
ECE/Honors/College Prep History
Honors/College Prep Chemistry
AP/ECE/Honors/College Prep Math
College Prep World Language III

Grade 10

Honors/College Prep English II
Honors/College Prep Modern World History
Honors/College Prep Integrated Science
Honors/College Prep Geometry/Algebra II
College Prep World Language II

Grade 12

AP/ECE/Honors English/CP English IV
AP History/Social Studies Elective
AP/ECE/Honors Science Elective
AP/ECE/Honors/College Prep Math
Honors 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, 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** 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. **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 school 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 a high school class; it is meant to be used only as enrichment for the student. Students will be responsible to pay for their books. Students will not receive class rank, or GPA points.

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. **STUDENT LEARNING CENTER** The Student Learning Center is a resource center for any student who needs support. Students can come to the Student Learning Center anytime with permission to receive support and/or can be assigned to the Student Learning Center through their school counselor. The Student Learning Center supports students with academic class assignments, homework, organization, time management, extra study time, more focused support, a quiet place to work, and/or APEX (a credit recovery program). Students who might need more focused support and/or study time can be assigned to the SLC through a guided study, where they will be able to work on assignments and skill development in an individualized manner. The SLC works closely with every teacher as teachers support the SLC and their students. The SLC advocates for students and helps students advocate for themselves.
6. **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 intra-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.
7. **PHS CAREER & TECHNICAL EDUCATION ACADEMY** Students may enroll in courses that provide experiential learning opportunities through career exploration, skill building and related educational frameworks as they build towards their future. The following programs are available: Business & Finance, Education & Human Services, Health Occupations, Computer Science and Information Technology and Manufacturing Technology.

PHS CAREER & TECHNICAL EDUCATION ACADEMY

- CAREER & TECHNICAL EDUCATION PROGRAMS ARE AVAILABLE TO GRADES 9-12. SEE SPECIFIC REQUIRMENTS FOR EACH COURSE.
- CAREER EDUCATION ACADEMY COURSES MAY BE USED TO FULFILL PHS GRADUATION REQUIREMENTS.

BUSINESS & FINANCE

6231 Intro to Business or 6232 Bus Economics 6421 Accounting I 6431 Accounting II 6331 Advanced Personal Finance Career Center Opportunities	6116 MS Office I & 6126 MS Office II 6141 Computer Support Intern I 6151 Computer Support Intern II 6131 Web Design Career Center Opportunities
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The Finance cluster provides students a foundation for further studies and experiences in preparation for college and/or career.	Upon successful completion of CSI II, students may apply to take the A+ Certification test.
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COMPUTER SCIENCE & INFORMATION TECHNOLOGY

This pathway is differentiated by student interests: choose 4.0 credits from the following:

8215 App Creators for Android & iOS (0.5 credit)
 8105 Introduction to Data Science (0.5 credit)
 8121 Introduction to Programming (1.0 credit)
 8124 AP Computer Science Principles (1.0 credit)
 8134 AP Computer Science A - Java (1.0 credit)
 Any Other ARTS or STEM Course (1.0 credit)
 8132 Capstone Project

EDUCATION AND HUMAN SERVICES

3036 CP Sociology
 3046 CP Psychology
 3071 CP Human Development I
 3081 CP Human Development II
 Career Center Opportunities

Opportunities will be provided that prepare students for further education or careers working in Education and Human Services.

HEALTH OCCUPATIONS

2010/11 or 12 Biology
 2040 or 42 Anatomy & Physiology
 2098 ECE Medical Terminology
 2044 AP Biology

Refer to the 'Health Occupations' in the Program of Studies for additional information and requirements or contact your school counselor.

MANUFACTURING TECHNOLOGY & ENGINEERING
1441 CP Manufacturing Math 8340 Manufacturing 8732 Honors Intro to Engineering I Career Center Opportunities
Upon successful completion, students may participate in the Youth Manufacturing Pipeline Initiative (YMPI) after graduation. YMPI raises the baseline of our labor force's competencies to align with skills that are in-demand by manufacturers. The core element is focused on skills training classes with curriculum designed by employers in trades such as welding, machining, electrical and design. Contact your school counselor for more information.

ENGLISH DEPARTMENT

Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
0110	AC English I	H	☒	AC	1		9
0111	CP English I	H	☒	CP	1		9
0112	HONORS English I	H	☒	HONORS	1		9
0120	AC English II	H	☒	AC	1		10
0121	CP English II	H	☒	CP	1		10
0122	HONORS English II	H	☒	HONORS	1		10
0126	CP Public Speaking	H	☒	CP	.5		10,11,12
0130	AC English III	H	☒	AC	1		11
0131	CP English III	H	☒	CP	1		11
0132	HONORS English III	H	☒	HONORS	1		11
0133	ECE Dual Enrollment Program: American Studies-Literature	H	☒	ECE	1	ECSU	11
0140	AC English IV	H	☒	AC	1		12
0141	CP Non-Fiction	H	☒	CP	1		12
0142	HONORS Brit Literature	H	☒	HONORS	1		12
0144	AP English	H	☒	AP	2	AP	12
0166	CP Creative Writing	H	☒	CP	.5		10, 11, 12
0171	CP Film Studies	H	☒	CP	1		11,12
0181	CP Science Fiction	H	☐	CP	1		12
0191	CP Contemporary Fiction	H	☒	CP	1		12

*H= Humanities, S= STEM, A=Arts

0110 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.

0111 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.

0112 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.

0120 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. **Prerequisite: English I**

0121 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.

Prerequisite: English I

0122 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. **Prerequisite: English I**

0126 College Prep Public Speaking

Credit .5

Public speaking is an elective course in which students will learn the fundamentals of speech communication. Students will 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 nonverbal aspects of communication. **Elective: Open to students in grades 10-12**

0130 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. **Prerequisite: English II**

0131 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 continues, with an added emphasis on research techniques and expository writing. **Prerequisite: English II**

0132 Honors 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 12th grade. Prerequisites: Teacher recommendation and students must complete summer reading and MLA writing assignments before classes begin in August. **Prerequisite: English II**

0133 ECE Dual Enrollment Program: American Studies – Literature

Credit 1

This course is a multi-disciplinary inquiry into the diversity of American society and culture that spans 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 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 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 0133 ECE American Studies: Literature must take 3033 ECE American Studies: History. Students earning an overall average of C or higher in both courses will earn three credits through ECSU ECE Dual Enrollment Program that are transferable to over 87% of colleges and universities in the United States. **Prerequisite: To be eligible, a student must have either a 70 average or higher in an Honors English II course, or an 87 average or higher in a CP English II course.**

0140 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.

Prerequisite: English III

0141 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. Note: this course may be taken as an elective. **Prerequisite: English III**

0142 Honors British Literature

Credits 1

Students will experience an array of writings from British authors. Students will not only be exposed to British literary works but will be introduced to the authors and historical contexts. 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 first semester of the course will provide a general survey of British Literature, while the second semester will focus on the life and works of William Shakespeare. **Prerequisite: English III**

0144 Advanced Placement 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.

0166 College Prep Creative Writing

Credit .5

Creative 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. **Elective: Open to students in grades 10-12**

0171 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. This course counts as an English elective only. **Elective: Open to students in grades 11-12**

0181 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.

0191 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. **Prerequisite: English III**

MATHEMATICS DEPARTMENT

Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade level
1010	AC Algebra I	S	☒	AC	1		9
1011	CP Algebra I	S	☒	CP	1		9, 10
1012	HONORS Algebra I	S	☒	HONORS	1		9
1120	AC Geometry	S	☒	AC	1		10, 11
1121	CP Geometry	S	☒	CP	1		10, 11
1122	HONORS Geometry	S	☒	HONORS	1		10, 11
1231	CP Algebra II	S	☒	CP	1		10, 11
1232	HONORS Algebra II	S	☒	HONORS	1		10, 11
1241	CP Algebra III	S	☒	CP	1		11, 12
1251	CP Intermediate Algebra	S	☒	CP	1		11, 12
1332	HONORS Pre-Calculus	S	☒	HONORS	1		11, 12
1343	ECE Elem. Discrete Math	S	☒	ECE	0.5	UCONN	11, 12
1344	AP Calculus AB	S	☒	AP	2	AP	12
1347	HONORS Elem. Discrete Math	S	☒	HONORS	0.5		11, 12
1431	CP Probability & Statistics	S	☒	CP	1		11, 12
1441	CP Manufacturing Math	S	☒	CP	1		11, 12
1442	HONORS Engineering Math	S	☒	HONORS	1		11, 12

*H= Humanities, S= STEM, A=Arts

Mathematics Department Course Sequence

	<i>Course Sequence #1</i>	<i>Course Sequence #2</i>	<i>Course Sequence #3</i>
Freshman Year	Academic Algebra I	CP Algebra I	Honors Algebra I
Sophomore Year	Academic Geometry	CP Geometry	Honors Geometry and Honors Algebra II
Junior Year	CP Intermediate Algebra	CP Intermediate Algebra or CP Algebra II	Honors Pre-Calculus
Senior Year	CP Algebra II	CP Algebra II, CP Topics in Advanced Math, CP Manufacturing Math, or CP Probability & Statistics	AP Calculus AB, ECE Elem. Discrete Mathematics, or Honors Engineering Math

1010 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**

1011 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**

1012 Honors Algebra I**Credit 1**

Honors Algebra I course is the basis for all subsequent courses in mathematics. Algebraic concepts consist 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**

1120 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**

1121 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**

1122 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**

1231 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**

1232 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**

1241 College Prep Algebra III

Credit 1

CP Algebra III Math 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 or graphing calculator is required.) **Prerequisite: College Prep Algebra II**

1251 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, quadratic functions, polynomials and polynomial functions, factoring and SAT review. (A scientific calculator or a graphing calculator is required.) **Prerequisite: Academic Geometry or College Prep Geometry**

1332 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

1343 Early College Experience Elementary Discrete Mathematics

Credit 0.5

ECE Elementary Discrete Mathematics explores various topics in discrete mathematics including voting methods, apportionment, finance, probability, and an introduction to graph theory. Students will receive UCONN College Credit when signed up through UCONN and with successful completion of the course. Offered Fall semester only. (A scientific calculator is required.) **Prerequisite: Honors Algebra II**

1347 Honors Elementary Discrete Mathematics

Credit 0.5

Honors Elementary Discrete Mathematics is sequential to ECE Elementary Discrete Mathematics. This course uses real life applications to dive deeper into topics covered in ECE Elementary Discrete Mathematics. Additional topics explored include an introduction to number theory, tournament scheduling, and cryptology. Offered Spring semester only. (A scientific calculator is required.) **Prerequisite: Early College Experience Elementary Discrete Mathematics**

1344 Advanced Placement Calculus AB

Credit 2

AP Calculus AB is designed to be the equivalent of a first semester college calculus course devoted to topics in differential and integral calculus. The course focuses around three big ideas: change, limits and analysis of functions. Beginning with a discrete model and then considering the consequences of a limiting case allows us to model real-world behavior and to discover and understand important ideas, definitions, formulas, and theorems in calculus: for example, continuity, differentiation, and integration. Calculus allows us to analyze the behaviors of functions by relating limits to differentiation, integration, and infinite series and relating each of these concepts to the others. (A graphing calculator is required.)

Prerequisite: Honors Precalculus

1431 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

1441 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.

1442 Honors Engineering Math**Credit 1**

Students will be introduced to the fields of engineering, design, graphics and comprehensive engineering projects. Topics will include the mathematical concepts of sketching, charts, graphs, forces, energy, electrical circuits, mechanisms, materials testing, manufacturing technologies and fundamentals of engineering economics. Students should take the course concurrently with Honors Introduction to Engineering I. (A scientific calculator is required.)

Prerequisite: Honors Pre-Calculus

SOCIAL STUDIES DEPARTMENT							
Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
3010	AC Civics	H	<input checked="" type="checkbox"/>	AC	1		9
3011	CP Civics	H	<input checked="" type="checkbox"/>	CP	1		9
3012	HONORS Civics	H	<input checked="" type="checkbox"/>	HONORS	1		9
3020	AC Modern World History	H	<input type="checkbox"/>	AC	1		10
3021	CP Modern World History	H	<input checked="" type="checkbox"/>	CP	1		10
3022	HONORS Modern World History	H	<input type="checkbox"/>	HONORS	1		10
3024	AP Modern World History	H	<input checked="" type="checkbox"/>	AP	2	AP	10,11,12
3030	AC Modern U.S. History	H	<input checked="" type="checkbox"/>	AC	1		11
3031	CP Modern U.S. History	H	<input checked="" type="checkbox"/>	CP	1		11
3032	HONORS Modern U.S. History	H	<input checked="" type="checkbox"/>	HONORS	1		11
3033	ECE American Studies - History	H	<input checked="" type="checkbox"/>	ECE	1	ECSU	11
3034	AP US History	H	<input checked="" type="checkbox"/>	AP	2	AP	11, 12
3036	CP Sociology	H	<input checked="" type="checkbox"/>	CP	0.5		11, 12
3041	CP Dialog and Rhetoric	H	<input checked="" type="checkbox"/>	CP	1		9, 10, 11, 12
3046	CP Psychology	H	<input checked="" type="checkbox"/>	CP	0.5		11,12
3051	CP Early U.S. History	H	<input checked="" type="checkbox"/>	CP	1		10, 11, 12
3052	HONORS Early U.S. History	H	<input type="checkbox"/>	HONORS	1		10, 11, 12
3061	CP World Philosophy & Ethics	H	<input checked="" type="checkbox"/>	CP	1		11, 12
3071	CP Human Development I	H	<input checked="" type="checkbox"/>	CP	1		11, 12
3081	CP Human Development II	H	<input checked="" type="checkbox"/>	CP	1		11, 12
3091	CP Science in History	H, S	<input checked="" type="checkbox"/>	CP	1		11, 12
3111	CP Contemporary Issues	H	<input checked="" type="checkbox"/>	CP	1		9, 10, 11, 12
3121	CP Ancient Civilizations	H	<input checked="" type="checkbox"/>	CP	1		9-12
3124	AP US Government and Politics	H	<input checked="" type="checkbox"/>	AP	2	AP	10, 11, 12
3131	CP African American/Black and Puerto Rican/Latino Studies	H	<input checked="" type="checkbox"/>	CP	1		11,12

*H= Humanities, S= STEM, A=Arts

3010 Academic Civics

Credit 1

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. Content is generally presented through a project-based approach. There is also a strong focus on skill development including reading comprehension, organization, use of sources and debating current events.

3011 College Prep Civics

Credit 1

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. A series of persuasive and expository essays will be assigned.

3012 Honors Civics**Credit 1**

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. A variety of instructional techniques will be used including debates, 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.

3020 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.

3021 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 19th 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.

3022 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 19th 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.

3024 Advanced Placement Modern World History**Credit 2**

In AP Modern World History students will investigate significant events, individuals, developments, and processes from 1200 to the present. Focus will be on the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. Students will develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

3030 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.

3031 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 20th 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.

3032 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 20th century America.

3033 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 ECSU 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 Modern World History AND Honors English II course, or an 87 average or higher in CP Modern World History AND CP English II course.**

3034 Advanced Placement 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.

3036 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

3041 College Prep Dialogue and Rhetoric**Credit 1**

Through the art and science of Dialogue and the use of rhetoric, students will continually and consistently develop their abilities to be critical thinkers, savvy presenters, and leave the yearlong course as young adults with a newfound confidence in themselves, their community, and understanding of our world. This course is intended to be primarily skill based. While building a safe classroom environment, emphasis will be placed on verbal and non-verbal presentation skills including organization, crutches, voice inflection, eye-contact, posture, composure, coping with anxieties, and pacing. Students will practice formal and informal debates with a focus on use of rhetoric, defining terminology, searching for quality evidence, building contentions, cross examining, rebutting, and drawing conclusions. Styles of extemporaneous and parliamentary debate will be formalized. While incorporating current events, most lessons will incorporate one or all of the following learning environments and activities.

3046 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

3051 College Prep Early US History**Credit 1**

The focus of this course is 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 settlement of Jamestown through the Civil War, ending with the Progressive Era. Students will be expected to write persuasively, read effectively for information, think and express their thoughts analytically and collaborate successfully with others on projects.

3052 Honors Early U.S. History**Credit 1**

The focus of this course is 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 settlement of Jamestown through the Civil War, ending with the Progressive Era. Students will be expected to write persuasively, read effectively for information, think and express their thoughts analytically, collaborate successfully with others on projects and research selected topics. An emphasis is placed on primary and secondary source analysis.

3061 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.

3071 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, childcare, fathers, same sex parenting, abuse and neglect on the development of children, as well as gender differences. **Prerequisite: Must be a junior or senior**

3081 College Prep Human Development II

Credit 1

The study of the principles of sociology of human development is offered to juniors and seniors. 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 have passed Human Development I**

3091 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**

3111 College Prep Contemporary Issues

Credit 1

This yearlong course is offered to all students. 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.

3121 College Prep Ancient Civilizations

Credit 1

This course focuses on the evolution of society from the ancient Middle East through Greek and Roman civilizations. Students will study the rise and fall of civilizations and empires, with emphasis on the legacies they provided to successive societies.

3124 Advanced Placement U.S. Government and Politics**Credit 2**

AP U.S. Government and Politics focuses on the study of the key concepts and institutions of the political system and culture of the United States. This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. Students will be expected to read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project.

3131 College Prep African American/Black and Puerto Rican/Latino Studies**Credit 1**

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

SCIENCE DEPARTMENT

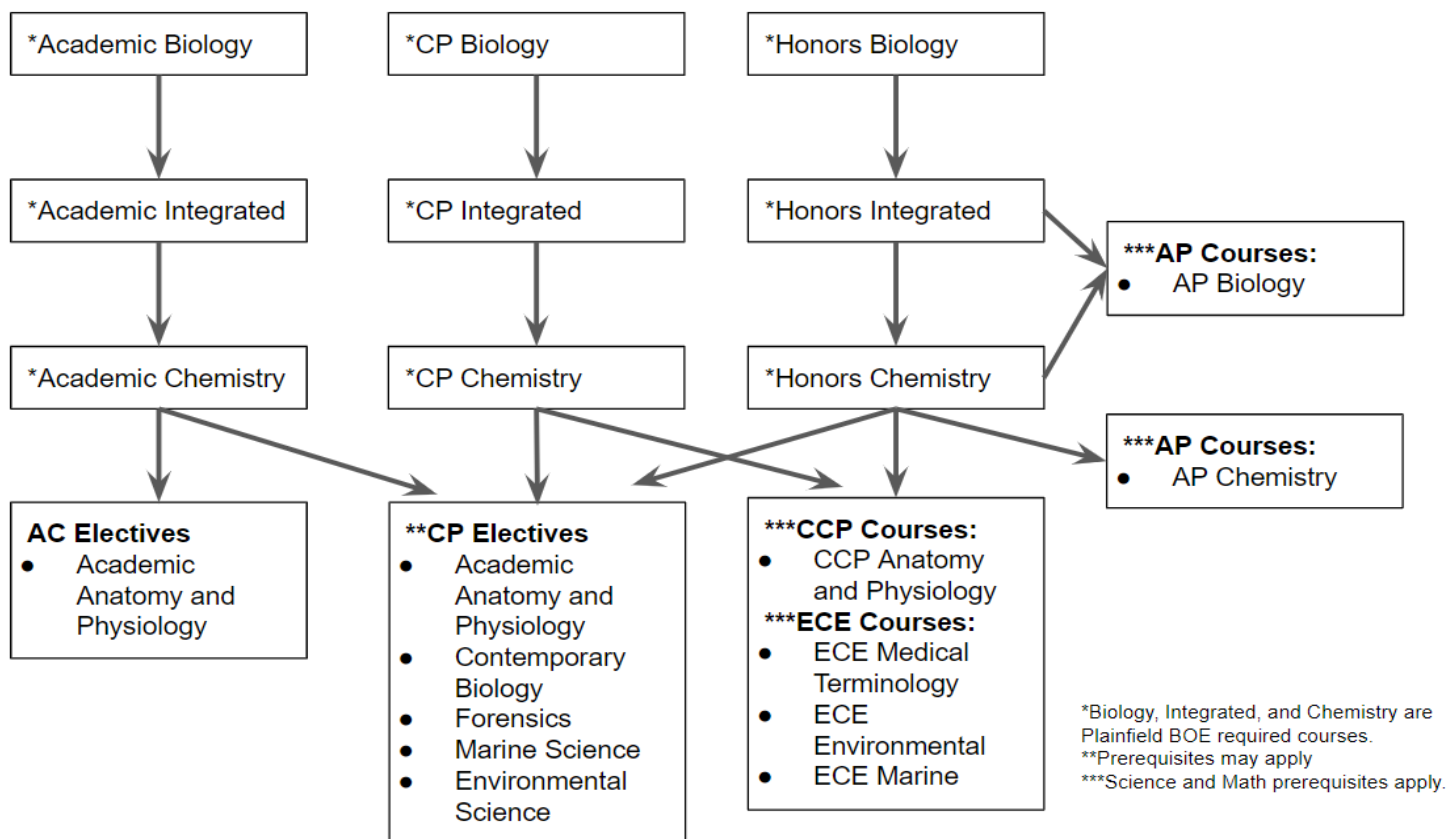
Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
2010	AC Biology	S	<input checked="" type="checkbox"/>	AC	1		9
2011	CP Biology	S	<input checked="" type="checkbox"/>	CP	1		9
2012	HONORS Biology	S	<input checked="" type="checkbox"/>	HONORS	1		9
2020	AC Integrated Science	S	<input checked="" type="checkbox"/>	AC	1		10
2021	CP Integrated Science	S	<input checked="" type="checkbox"/>	CP	1		10
2022	HONORS. Integrated Science	S	<input checked="" type="checkbox"/>	HONORS	1		10
2030	AC Chemistry	S	<input checked="" type="checkbox"/>	AC	1		11
2031	CP Chemistry	S	<input checked="" type="checkbox"/>	CP	1		11
2032	HONORS Chemistry	S	<input checked="" type="checkbox"/>	HONORS	1		10,11
2034	AP Chemistry	S	<input checked="" type="checkbox"/>	AP	2	AP	11
2040	AC Anatomy and Physiology	S	<input checked="" type="checkbox"/>	AC	1		11,12
2041	CP Anatomy and Physiology	S	<input checked="" type="checkbox"/>	CP	1		11,12
2042	HONORS Anatomy & Physiology	S	<input checked="" type="checkbox"/>	HONORS	1		11,12
2043	ECE Biology I	S	<input checked="" type="checkbox"/>	ECE	1	UConn	11, 12
2044	AP Biology	S	<input type="checkbox"/>	AP	2	AP	11,12
2050	AC Physics	S	<input type="checkbox"/>	CP	1		11,12
2051	CP Physics	S	<input type="checkbox"/>	CP	1		11,12
2052	HONORS Physics	S	<input type="checkbox"/>	HONORS	1		11,12
2054	AP Physics B	S	<input type="checkbox"/>	AP	2	AP	11,12
2063	ECE Marine Science: The Sea Around Us	S	<input checked="" type="checkbox"/>	ECE	1	UConn	12
2066	CP Marine Science	S	<input type="checkbox"/>	CP	0.5		10,11,12
2073	ECE Environmental Science	S	<input type="checkbox"/>	ECE	1	UConn	12
2076	CP Environmental Science	S	<input checked="" type="checkbox"/>	CP	0.5		10,11,12
2081	CP Contemporary Biology	S	<input checked="" type="checkbox"/>	CP	1		10,11,12
2082	HONORS Contemporary Biology	S	<input type="checkbox"/>	HONORS	1		10,11,12
2083	ECE Biology II	S	<input checked="" type="checkbox"/>	ECE	1	UConn	11, 12
2096	CP Forensics	S	<input checked="" type="checkbox"/>	CP	0.5		10,11,12
2098	ECE Medical Terminology	S	<input checked="" type="checkbox"/>	ECE	1	UConn	11,12

*H= Humanities, S= STEM, A=Arts

Levels of rigor are provided so that students can meet with success in all courses;

- Academic includes more hands-on and a less math-based approach with minimal homework load.
- College Prep includes more math, a small homework load, and emphasis on problem solving and analysis.
- Honors focuses on application of content using math with an emphasis on continuing the learning outside the classroom including a summer assignment.

Students should use the chart on the following page for planning purposes to prepare for post-graduation.



2010 Academic Biology

Credit 1

Academic Biology 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.

2011 College Prep 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.

2012 Honors Biology

Credit 1

Covering biological concepts including evolution, population ecology, cellular and molecular biology and genetics using a mathematical modeling and biochemical approach. Students will be expected to actively apply learning. This course is required for future enrollment in AP Biology.

2020 Academic Integrated Science

Credit 1

This course focuses on Physical Science with Earth and Space Science with a hands-on approach. Topics include Matter, Forces, Energy, Waves, Electricity & Magnetism, Earth's Place in the Universe, Earth systems and impacts of human activity. The math requirements for this course align to the Pre-Algebra course and concurrent enrollment in Pre-Algebra is recommended but not required.

2021 College Prep Integrated Science

Credit 1

This course focuses on Physical Science with Earth and Space Science with a more interdisciplinary and independent approach. Topics include Matter, Forces, Energy, Waves, Electricity & Magnetism, Earth's Place in the Universe, Earth systems and impacts of human activity. The math requirements for this course

aligns to the Algebra 1 mathematics course, and concurrent enrollment in Algebra is recommended.

Prerequisite: Successful completion of Algebra I.

2022 Honors Integrated Science

Credit 1

This course focuses on Physical Science with Earth and Space Science with topics including Matter, Forces, Energy, Waves, Electricity & Magnetism, Earth's Place in the Universe, Earth systems and impacts of human activity. This course is intended for students taking honors level math classes as there is a strong emphasis on mathematical reasoning and data analysis. **Prerequisite: Successful completion of Algebra I**

2030 Academic Chemistry

Credit 1

This course explores chemistry by applying chemistry concepts to hands-on lab activities and then relating this knowledge to the chemistry witnessed in everyday life. This course emphasizes communication skills and teamwork in order to understand major topics in chemistry. **Prerequisite: Successful completion of Biology**

2031 College Prep Chemistry

Credit 1

This course introduces the major concepts in chemistry, including inorganic, organic, analytical, and physical chemistry. The interactions, structures, and properties of matter as well as chemical reactions are emphasized. Students utilize basic lab equipment and practice proper lab safety. **Prerequisite: Completion of Biology. Concurrent enrollment or completion of Algebra II or Geometry. Exceptions will require teacher recommendation.**

2032 Honors Chemistry

Credit 1

This course offers highly motivated students a more in-depth study of chemical concepts, including higher level topics such as molecular and electron geometries, nuclear chemistry, acids and bases, and electrochemistry. Laboratory work requires independent thinking, teamwork, and problem solving. **Prerequisite: Completion of Biology and Algebra II or Geometry. Exceptions require teacher recommendation.**

2034 Advanced Placement Chemistry

Credit 1

AP Chemistry is designed to be the equivalent of a year-long chemistry course usually taken during the first college year. Through the course, students attain a solid understanding of the fundamentals of Chemistry and become competent at solving quantitative and analytical problems. This course differs from Honors Chemistry with respect to the level of the textbook, topics covered, emphasis on chemical calculations, mathematical formulations of principles, laboratory work, and the amount of independent study required for success. Completion of a summer assignment is required. Successful completion of the AP Exam with a 3 or higher may earn up to 8 college credits. **Prerequisite: The College Board states that "AP Chemistry is designed to be taken only after the successful completion of a first course in high school chemistry" and "the recommended mathematics prerequisite for an AP Chemistry class is the successful completion of a second year algebra course."**

2040 Academic Anatomy & Physiology

Credit 1

Anatomy is a human biology course designed for students who have successfully completed Biology and Integrated Science. Students will investigate the structure and function of the human body through hands on activities, labs, and projects. Throughout each unit students will study related areas of the body as well as the major diseases associated with each system. Academic Anatomy has a reduced emphasis on math and chemistry. **Prerequisite: Successful completion of Biology and Integrated Science or teacher recommendation.**

2041 College Prep 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. **Prerequisite: Completion of CP or Honors Biology. Completion of College Prep Chemistry or concurrent enrollment in Chemistry is highly recommended.**

2042 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. Students who successfully complete this course can earn 3 college credits from Three Rivers Community College. **Prerequisite: Students must complete Honors Biology and Algebra along with completion or concurrent enrollment in Chemistry. If not met, teacher recommendation required.**

2043 ECE Biology I**Credit 1**

ECE Biology I is designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include molecular and cell biology, animal anatomy and physiology. Lab exercises include dissection of preserved animals. This is a UCONN ECE course that receives four credits for BIOL 1107: Principles of Biology with an overall grade of “C” or better in the course and final exam.

Prerequisites: Students must concurrently be enrolled in or have completed chemistry. Teacher consent.

2044 Advanced Placement Biology**Credit 2**

AP Biology is the equivalent of a two college biology courses. 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. This course is designed to deepen understanding of concepts learned in CP or Honors Biology. A summer assignment is required and successful completion of the AP Exam with a 3 or higher may earn up to 8 college credits. **Prerequisite: The College Board states that AP Biology “students should have successfully completed high school courses in biology and chemistry”. AP Biology is equivalent to a two-semester college introductory biology course for biology majors and thus, a solid understanding of biological concepts is essential prior to digging deeper into content.**

2050 Academic Physics**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 Integrated Science.**

2051 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, and nuclear physics. 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 Integrated Science and Algebra II is required. Enrollment in Pre-Calculus is recommended. Exceptions will require teacher recommendation.**

2052 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 Honors Integrated and Honors Chemistry. Successful completion of Honors Algebra II is required. Enrollment in Pre-Calculus is recommended.**

2054 Advanced Placement 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 teacher recommendation.**

2063 ECE Marine Science: The Sea Around Us**Credit 1**

The class is intended to be an entry level Marine Science course that introduces students to basic concepts of physical Oceanography, gives a broad overview of Marine Biodiversity, and examines the results of Human Interaction with the Marine Environment. The first half of the course covers the physical aspects such as interactions and interrelationships between physical, chemical, biological and geological processes that contribute to both the stability and the variability of the marine environment. The second half of the course uses this background to explore the biodiversity of the ecosystems found in the world's oceans, and to understand the impacts that human uses of the ocean and its resources are having on the organisms and their various habitats. Guidelines for the course are set by UConn. Students must maintain a C average and successfully complete all UConn requirements to earn 3 college credits. Application fee required for UConn credit. **Prerequisite: According to the University of Connecticut "Two years of lab science is recommended".**

2066 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 marine science 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. **Prerequisite: Successful completion of all three required sciences.**

2073 ECE Environmental Science**Credit 1**

Environmental Science is an introductory college course that explores basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include human population; ecological principles; conservation of biological resources; biodiversity; croplands, rangelands, forestlands; soil and water conservation; pollution and water management; and wildlife and fisheries conservation. Guidelines for the course are set by UConn. Students must maintain a C average and successfully complete all UConn requirements to earn 3 college credits. Application fee required for UConn credit. **Prerequisite: According to the University of Connecticut "Two years of lab science is recommended".**

2076 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 a multidisciplinary approach to explore issues affecting our environment. Topics covered include global warming and climate change, ecology resources, waste, population growth, and pollution. **Prerequisite: Successful completion of Integrated Science and Biology or teacher recommendation.**

2081 College Prep Contemporary Biology**Credit 1**

This course is centered around relevant case studies and how they apply to science engaging students in rigorous thinking and application. Topics include Cellular and Biochemical research, scientific technology, ethics, global health and impact with a focus on restorative impact and expansion by humans. There is a large focus on personal research and application. Students are expected to have a desire to discuss and research scientific topics. **Prerequisite: Successful completion of CP Biology or teacher recommendation**

2082 Honors Contemporary Biology**Credit 1**

This course is centered around relevant case studies and how they apply to science engaging students in rigorous thinking and application. Topics include Cellular and Biochemical research, scientific technology, ethics, global health and impact with a focus on restorative impact and expansion by humans. There is a large focus on personal research and application. Students are expected to have a desire to use advanced research techniques to discuss and support understanding of scientific topics. **Prerequisite: Successful completion of Hon Biology or teacher recommendation.**

2083 ECE Biology II**Credit 1**

ECE Biology II is designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include evolution and population genetics, plant physiology and diversity, animal diversity and behavior, and ecology. This is a UCONN ECE course that receives four credits for BIOL 1108: Principles of Biology with an overall passing grade of “C” or better in the course and final exam. **Note: ECE Biology 1 does not need to be completed to enroll in this course. Prerequisites: Students must concurrently be enrolled in or have completed chemistry. Teacher consent.**

2096 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 Biology.**

2098 ECE Medical Terminology**Credit 1**

This course is designed as an introduction to the fields of Medical Terminology for students interested in pursuing a career in Allied Health Sciences (medical or nursing professions) or Occupational Safety and Health. This semester long course will provide students with an understanding of human anatomy and physiology through explorations of all of the body systems. Course content will concentrate on learning root words, prefixes and suffixes associated with the human body. By the end of the course students will be expected to explain the meanings of medical terms in the context of the structure and function of the human body in health and disease. Students will also be expected to name the major organs and describe their locations and functions within the body. Part of this course will include describing disease processes, symptoms, diagnosis and treatments that affect the various body systems. Guidelines for the course are set by UConn. Students must maintain a C average and successfully complete all UConn requirements to earn 1 college credit. Application fee required for UConn credit. **Prerequisites: Completion of Biology and successful completion of Anatomy is highly recommended.**

WORLD LANGUAGE DEPARTMENT							
Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
4510	AC Foundations of Spanish	H	☒	AC	1		9,10, 11, 12
4511	CP Spanish I	H	☒	CP	1		9,10,11,12
4521	CP Spanish II	H	☒	CP	1		10,11,12
4531	CP Spanish III	H	☒	CP	1		10, 11,12
4542	HONORS Spanish IV	H	☒	HONORS	1		11, 12
4552	HONORS Spanish V	H	☒	HONORS	1		12

*H= Humanities, S= STEM, A=Arts

4510 Academic Foundations of the Spanish Language

Credit 1

This course uses a Comprehensible Input (CI) approach to learning Spanish. The acquisition of high frequency structures is used to engage in class discussions, stories, and cultural explorations. Students learn to read, comprehend, and write short passages in Spanish. Students may elect to enroll in C.P. Spanish I after successful completion of this course. Students who have earned credit in Spanish I or higher will not be placed in Foundations of the Spanish Language. **Prerequisite: None**

4511 College Prep Spanish I

Credit 1

This course uses a Comprehensible Input (CI) approach to learning Spanish. The acquisition of high frequency structures is used to engage in the language through class discussions, stories, and cultural explorations. Students learn to read and write in Spanish, and they will develop skills in listening and speaking, though the latter will not be formally assessed in this level. Daily practice is an essential part of this course. **Prerequisite: None**

4521 College Prep Spanish II

Credit 1

Spanish II reviews and expands upon the basic vocabulary and grammar structures covered in Spanish I. This course also utilizes a Comprehensible Input (CI) approach, and the acquisition of high frequency structures is used to engage in the language through class discussions, stories, and cultural explorations. Students continue to develop their skills in reading, writing, listening to and speaking in Spanish. Daily practice is an essential part of this course. **Prerequisite: Spanish I**

4531 College Prep Spanish III

Credit 1

In Spanish III, students will continue to expand their communication skills in Spanish, as more complex structures are acquired. This course utilizes a Comprehensible Input (CI) approach, and students engage in the language through class discussions, stories, and cultural explorations. Students continue to develop their skills in reading, writing, listening to and speaking in Spanish. Daily practice is an essential part of this course. **Prerequisite: Spanish II**

4542 Honors Spanish IV

Credit 1

In Spanish IV students will deepen their proficiency in and knowledge of the Spanish language and Spanish-speaking cultures. The attainment of effective communication skills, both written and oral will be emphasized. The program uses a Comprehensible Input (CI) approach to provide practice for increased proficiency. Daily practice is an essential part of this course. **Prerequisite: Spanish III**

4552 Honors Spanish V**Credit 1**

Spanish V is an advanced course to develop and deepen students' literary and conversational abilities. Emphasis is placed on improving the comprehension, speaking, reading and writing skills of the students using the Comprehensible Input (CI) approach at a higher level. Students will also continue to expand their knowledge of Spanish and Latin American culture. Daily practice is an essential part of this course.

Prerequisite: Spanish IV

BUSINESS & FINANCE DEPARTMENT							
Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
6025	Career Exploration	H, S, A	<input type="checkbox"/>	AC	0.5		10,11,12
6045	VOG: Career Readiness		<input type="checkbox"/>		.5		12
6116	CP Microsoft Office I	S	<input checked="" type="checkbox"/>	CP	0.5		9,10,11,12
6125	Innovative Software Exploration	H, S	<input checked="" type="checkbox"/>	AC	0.5		9,10,11,12
6126	CP Microsoft Office II	S	<input checked="" type="checkbox"/>	CP	0.5	QVCC	9,10,11,12
6132	HONORS Web Design	H, S	<input checked="" type="checkbox"/>	H	1	QVCC	11,12
6141	CP Computer Support Intern I	S	<input checked="" type="checkbox"/>	CP	1		11,12
6151	CP Computer Support Intern II	S	<input type="checkbox"/>	CP	1		11,12
6221	CP Marketing	H, S, A	<input type="checkbox"/>	CP	1		10,11,12
6226	CP Business Law	H	<input type="checkbox"/>	CP	0.5		10,11,12
6231	CP Intro to Business	H	<input checked="" type="checkbox"/>	CP	1	QVCC	11,12
6236	CP Business Economics	H, S	<input type="checkbox"/>	CP	0.5		10,11,12
6321	CP Entrepreneurship	H, S, A	<input checked="" type="checkbox"/>	CP	1		10,11,12
6326	VOG Financial Life Skills	H, S	<input checked="" type="checkbox"/>	CP	0.5		10,11,12
6332	HONORS Adv. Personal Finance	H, S	<input type="checkbox"/>	H	1	QVCC	11,12
6421	CP Accounting 1	H, S	<input checked="" type="checkbox"/>	CP	1		10,11,12
6432	HONORS Accounting 2	H, S	<input checked="" type="checkbox"/>	H	1	QVCC	10,11,12

*H= Humanities, S= STEM, A=Arts

6025 Career Exploration**Credit .5**

This course provides students with the essential skills and tools they will need in career exploration and interview preparation. Students will learn to assess their personal strengths and weaknesses as they relate to career decisions and develop important soft skills needed to interact with potential employers and customers on the job. Students will create personal portfolios which include job applications, cover letters, and resumes to enhance their interviewing skills ending with completion of a mock interview. Upon completion of this course, students will develop professional communication skills that are generic to all occupations as they begin to prepare for entrance into the real world. This course is offered to 11th and 12th grade students.

With a recommendation from their guidance counselor, grade 10 students may take the course.

6045 VOG Career Readiness**Credit 1**

The Vision of Your Future: Career Readiness course provides high school students the opportunity to establish and promote self-awareness, career knowledge and exploration, employability, leadership, and lifelong learning skills while creating a digital portfolio which showcases their work during their high school career. This personalized senior portfolio project demonstrates the skills that students have acquired

during their education to showcase their skills and growth while preparing them for career readiness or college. Upon conclusion of the course, students will have learned the importance of soft skills in the workplace, participated in a Mock Interview, and be required to develop a Career Portfolio focused on resumes, cover letters, references, and job applications which demonstrates research, decision making, communication, and technology skills.

6116 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.

6125 Innovative Software Exploration

Credit .5

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 21st Century skills for recognizing types of media/technology to use for various projects in their education and future careers. Upon completion of this course students will have created their own website/digital portfolio showcasing their work. This will help enhance students' employability in a diverse workplace. This course is offered to 10th, 11th, and 12th grade students.

6126 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 Outlook. This course includes an integrated project utilizing Word, Excel, Access, PowerPoint and Outlook. 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.**

6132 Honors 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. Upon completion of this course students will have the knowledge to be able to use coding to create their own niche website. College Career Pathways students receive QVCC college credit upon successful completion of this course. This course is offered to 11th and 12th grade students. **With a recommendation from their guidance counselor, grade 10 students may take the course.**

6141 College Prep Computer Support Intern I

Credit 1

Computer Support Intern (CSI) will be a hands-on study of technology integration, problem solving, and Chromebook repair. Students will be required to assess problems and define the best approach to addressing or solving the problem. Students will have a 20% project relating to a technology topic of their choice approved by the teacher. Lessons for students will include learning A+ *Guides to Technical Support* where through online simulations students will learn how to repair computers and troubleshoot problems. *CSI I* will focus on the hardware side of computer repair. This course is offered to 11th and 12th grade students.

6151 College Prep Computer Support Intern II**Credit 1**

Computer Support Intern (CSI) will be a hands-on study of technology integration, problem solving, and Chromebook repair. Students will be required to assess problems and define the best approach to addressing or solving the problem. Students will have a 20% project relating to a technology topic of their choice approved by the teacher. Lessons for students will include learning *A+ Guides to Technical Support* where through online simulations students will learn how to repair computers and troubleshoot problems. *CSI II* will focus on the software side of computer repair. This course is offered to 11th and 12th grade students.

6221 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 including social media aspects, 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 grade students.

6226 College Prep Business Law**Credit .5**

This course provides students with an understanding of business and personal law. Topics include constitutional, statutory, case and administrative laws, laws for minors, civil and criminal law, court jurisdictions, trial procedures, contract, consumer, employment, family, property, and cyber laws. Legal knowledge is applied in a fun and meaningful way through participating in mock trials and case studies based on real world applications and current news.

6231 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. Students experience many facets of owning their own business through the use of guest speakers and simulations. College Career Pathways students receive QVCC college credit upon successful completion of this course. This course is offered to 11th and 12th grade students.

6236 College Prep Business Economics**Credit .5**

This course is an introductory study of the external factors that influence businesses beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. Students will be presented with current economic issues through the use of case studies. Students participate in the STOCK MARKET SIMULATION. This course is offered to 10th, 11th, and 12th grade students.

6321 College Prep Entrepreneurship**Credit 1**

Students will work collaboratively to create, operate, manage and liquidate an actual business within one semester. A wide range of topics will be covered in this learn-by-doing approach to entrepreneurship including problem solving, option evaluation, and business operations along with many other topics related to owning your own business. This experience prepares students to be outstanding members of the workforce by understanding how a business is founded and operates. Additionally, students who want to begin their own small businesses will have a solid understanding of what it will take to make their business successful. This course is offered to 10th, 11th, and 12th grade students.

6326 VOG Financial Life Skills**Credit .5**

This course provides students with an overview of the informational and decision-making skills to help 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 basics of personal issues to consider when choosing and planning on a career. This course is offered to 10th, 11th, and 12th grade students.

6332 Honors Advanced Personal Finance**Credit 1**

This course provides students with the informational and decision-making skills necessary to manage their own personal finances and understand the choices that consumers face in managing their finances. The topics include the basics of personal income and budgeting, checking and savings accounts, consumer credit, investing, taxes, housing, insurances, retirement, and estate planning. Topics are reinforced through online simulations and projects. College Career Pathways students receive QVCC college credit upon successful completion of the course. This course is offered to 11th and 12th grade students. Prerequisite: CP Business & Personal Finance

6421 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 businesses from start through financial statements and closing entries. 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 the successful completion of CP Accounting I & II. This course is offered to 11th and 12th grade students. **With a recommendation from their guidance counselor, grade 10 students may take the course.**

6432 Honors 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 11th and 12th grade students. **Prerequisite: Students must successfully complete CP Accounting I before taking this course.**

VISUAL ARTS DEPARTMENT

Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
6510	Art Foundations	H, A	<input type="checkbox"/>	AC	1		9, 10, 11, 12
6515	Art Foundations	H, A	<input checked="" type="checkbox"/>	AC	0.5		9, 10, 11, 12
6520	Drawing/Painting	H, A	<input type="checkbox"/>	AC	1		10,11,12
6525	Drawing/Painting	H, A	<input checked="" type="checkbox"/>	AC	0.5		10, 11, 12
6530	Intro to Pottery	H, A	<input type="checkbox"/>	AC	1		9, 10, 11, 12
6535	Intro to Pottery	H, A	<input checked="" type="checkbox"/>	AC	0.5		9, 10, 11, 12
6534	AP Studio Art	H, A	<input checked="" type="checkbox"/>	AP	2	AP	11,12
6540	Adv. Pottery & Sculpture	H, A	<input checked="" type="checkbox"/>	AC	1		10, 11,12

*H= Humanities, S= STEM, A=Arts

6510~6515 Art Foundations

Credit 1~ 0.5

This course is a prerequisite for all other art courses. Students will learn and utilize the Elements and Principles of Art and Design through hands-on art making projects. Students will explore color theory, book making, drawing, painting and other approaches to mixed media art. During this course students will become familiar with tools such as micron pens, acrylic paints, oil pastels, chalk pastels, charcoal, and graphite pencils. Students will exercise their creative thinking skills through completion of assigned projects, independent projects, self-assessments and group critiques.

6520~6525 Drawing & Painting

Credit 1~ 0.5

This course is designed for students to further explore the materials and skills introduced in Art Foundations. Students will create artworks that touch upon portraiture, still life drawing, drawing from observation, printmaking, sumi ink painting, and advanced color theory. Students will study the artworks of various artist as inspiration to fuel and inspire their artistic voice. Students will further exercise their creative thinking skills through completion of assigned projects, independent projects, self-assessments and group critiques **Prerequisites: Successful completion of Art Foundations**

6530~6535 Introduction to Pottery

Credit 1~ 0.5

Students will design and employ hand building techniques to construct a variety of functional and sculptural vessels. Techniques include slab, coil, pinch pot, using additive, subtractive and combinative processes. Upon completion of the hand building units' students will create wheel thrown bowls on the pottery wheel. Surface decoration techniques for glazing/staining and use of underglaze will be applied. Students will have textbook based classwork to help learn vocabulary and historical context to influence the construction of their pottery. Responsible work habits and the ability to work as part of a team are essential. Service projects are a strong component of this course as well as participation in creating bowls for our annual Soup and Bread Benefit Dinner. This course is a prerequisite for Advanced Pottery and AP Studio Art.

Prerequisites: Successful completion of Art Foundations

6534 Advanced Placement Studio Art

Credit 2

AP Art is recommended for juniors and seniors who have taken Art Foundations, Drawing and Painting, and Intro to Pottery. This is a yearlong course. Advanced Placement 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. 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, Drawing and Painting and Intro to Pottery

6240 Advanced Pottery & Sculpture**Credit 1**

This course is designed for students to further explore techniques and concepts learned in Intro to Pottery. Students will focus on wheel throwing, trimming, creating a variety of forms, surface decoration and glazing. Many projects will focus on creating forms that serve a purpose with a specific function such as jars, mugs, vases, etc... Students will have textbook-based classwork to help learn vocabulary and historical context. Students will work independently and in groups. Students are required to participate in our Annual Soup and Bread Benefit Dinner by throwing and glazing a number of bowls.

Prerequisite: Successful completion of Art Foundations and Intro to Pottery

MUSIC DEPARTMENT							
Course Number	Courses	*Code	Offered 23/24	Level	Credit	College Credit Available	Grade Level
6610	Concert Choir	H, A	☒	AC	1		9, 10, 11, 12
6620	Chamber Choir	H, A	☒	AC	1		10, 11, 12
6630	Chorale	H, A	☒	AC	1		10, 11, 12
6650	Treble Choir	H, A	☒	AC	1		10, 11, 12
6670	Singing for the Stage	H, A	☒	AC	1		9, 10, 11, 12
6705	Electronic Music	H, S, A	☐	AC	0.5		9, 10, 11, 12
6710	Concert Band	H, A	☒	AC	1		9, 10, 11, 12
6716	CP Music Theory	H, A	☐	CP	0.5		9, 10, 11, 12
6720	Symphonic Band	H, A	☒	AC	1		10, 11, 12
6725	Piano & Fundamentals of Music I	H, A	☒	AC	0.5		9, 10, 11, 12
6730	Jazz Band	H, A	☒	AC	1		10, 11, 12
6734	AP Music Theory	H, A	☒	AP	2	AP	11, 12
6740	Rock Band	H, A	☒	AC	1		9, 10, 11, 12
6755	Piano & Fundamentals of Music II	H, A	☒	AC	0.5		9, 10, 11, 12
6760	Percussion Ensemble	H, A	☒	AC	1		9,10, 11, 12
6770	Theater-Stagecraft	H, A	☒	AC	1		9, 10, 11, 12
6780	Guard	H, A	☒	AC	1		9, 10, 11, 12

*H= Humanities, S= STEM, A=Arts

6610 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).

6620 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 the Concert Choir, and have met the requirements to advance to a higher-level choir, may audition for this ensemble in May of the previous year.

6650 Treble Choir

Credit 1

This Treble voice ensemble is an advanced level performing ensemble that requires students to possess a strong grasp of proper vocal technique and music literacy. The Treble 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 the Concert Choir, and have met the requirements to advance to a higher-level choir, may audition for this ensemble in May of the previous year.**

6670 Singing for the Stage

Credit 1

This class will focus on developing proper vocal technique and musicianship skills for the solo vocalist. Students will learn about various music genres and the vocal techniques appropriate for performance in each respective style, including, but not limited to, theater, jazz, blues, rock, and pop.

6630 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.**

6705 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.

6710 Concert Band

Credit 1

This year-round ensemble is designed to enhance and improve student's music reading and proficiency on 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.

6716 College Prep Music Theory**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.

6720 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.**

6725 Piano and Fundamentals of Music I**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.

6730 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.

6734 Advanced Placement Music Theory**Credit 2**

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.**

6740 Rock Band**Credit 1**

Rock/Pop Band is a course designed for students who want to develop music-making skills and music literacy using primarily rock, pop, and jazz music. Students should have some experience on one of the following instruments: guitar, electric bass, drums, and/or keyboards. Students will explore deepen understandings of the fundamental elements of music, study the history and evolution of rock music through listening, explore live sound amplification techniques, use popular and rock music as the springboard to group music making.

6755 Piano and Fundamentals of Music II**Credit .5**

This course is a continuation of learning piano technique and music theory skills. Students will further develop piano skills as they work independently on proper piano technique. Students will also continue to learn more advanced music theory concepts and sight-reading skills.

6760 Percussion Ensemble**Credit 1**

This ensemble is designed to provide percussionists a challenging and exciting performing ensemble. They will perform with the band ensemble at concerts and alone at the school concerts. Students will learn to play

music using basic rudiments and simple patterns on the keyboard instruments and drums. 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

6770 Theater - Stagecraft

Credit 1

This course will focus on the production design elements of theater. Topics covered will include set design, set construction, theatrical props and theater marketing. No experience is required, but students with construction experience are encouraged to enroll.

6780 Guard

Credit 1

This ensemble is designed for students interested in the visual aspect of marching band, specifically color guard. The focus of this ensemble is to develop, practice and perform a choreographed routine that supports and adds specific visual elements to the marching band. Students after marching band season will learn a separate choreographed routine as part of the indoor guard. Students will also perform in community events such as parades. Students are required to attend weekly rehearsals after school, home football games, competitions, and concerts.

FAMILY CONSUMER SCIENCE DEPARTMENT						
Course Number	Courses	*Code	Offered 23/24	Level	Credit	Grade Level
8010	Basic Foods	H, A	<input checked="" type="checkbox"/>	AC	1	9, 10, 11, 12
8020	Advanced Foods	H, A	<input checked="" type="checkbox"/>	AC	1	10, 11, 12

*H= Humanities, S= STEM, A=Arts

8010 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 all students.

8020 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.

TECHNOLOGY EDUCATION DEPARTMENT						
Course Number	Courses	*Code	Offered 23/24	Level	Credit	Grade Level
8110	Computer Animation I	S	☑	AC	1	9, 10, 11, 12
8120	Computer Animation II	S	☑	AC	1	10, 11, 12
8210	Graphic Design & Media	S, A	☑	AC	1	10, 11, 12
8220	Digital Printing	S, A	☑	AC	1	11, 12
8230	Media Broadcasting	S, A	☑	AC	1	11, 12
8310	C.A.D. I	S	☑	AC	1	9, 10, 11, 12
8320	Architectural Drafting	S	☐	AC	1	10, 11, 12
8321	CP C.A.D. II	S	☑	CP	1	10, 11, 12
8330	Inventions	S	☑	AC	1	11, 12
8340	Manufacturing	S	☑	AC	1	11, 12
8410	Basic Wood	S	☑	AC	1	9, 10, 11, 12
8420	Advanced Woods	S	☑	AC	1	10, 11, 12
8430	Architectural Construction	S	☑	AC	1	10, 11, 12
8440	Blueprint Reading	S	☑	AC	1	11, 12
8515	Photography I	H, A	☑	AC	.5	9
8520	Photography II	H, A	☑	AC	1	9, 10, 11, 12
8530	Photography III	H, A	☑	AC	1	10, 11, 12
8732	HONORS Intro to Engineering I	S	☑	HONORS	1	11, 12

*H= Humanities, S= STEM, A=Arts

8110 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.

8120 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 I, 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: Computer Animation**

8210 Graphic 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

8220 Digital Printing**Credit 1**

This class is aimed at highly motivated juniors and seniors. This course is held in the Print Shop for students who have successfully mastered skills acquired in Graphic 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: Graphic Design & Media or Photography II**

8230 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: Graphic Design & Media or Photography II**

8310 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.

8321 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

8320 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**

8330 Inventions**Credit 1**

Highly motivated junior and senior 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.

8340 Manufacturing**Credit 1**

This course will explore the world of modern manufacturing while students attain the 21st century technical shop skills needed to succeed in the workforce, as well as in our school affiliated programs. The metal shop lab space will be utilized with state-of-the-art equipment for students to learn how to safely and properly use equipment, such as lathes, benders, milling machines, brakes, welders, shears and other fabrication equipment. Safety rules and expectations must be met and maintained at all times.

8410 Basic Wood**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.

8420 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.

8430 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: Advanced Woods*

8440 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 will 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.

8515 Photography I**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.

8520 Photography II**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 II 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: Photography I**

8530 Photography III

Credit 1

This is a 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. 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 by the end of the course. Students will also continue to build upon a college worthy portfolio. **Prerequisite: Photography II or approval of teacher.**

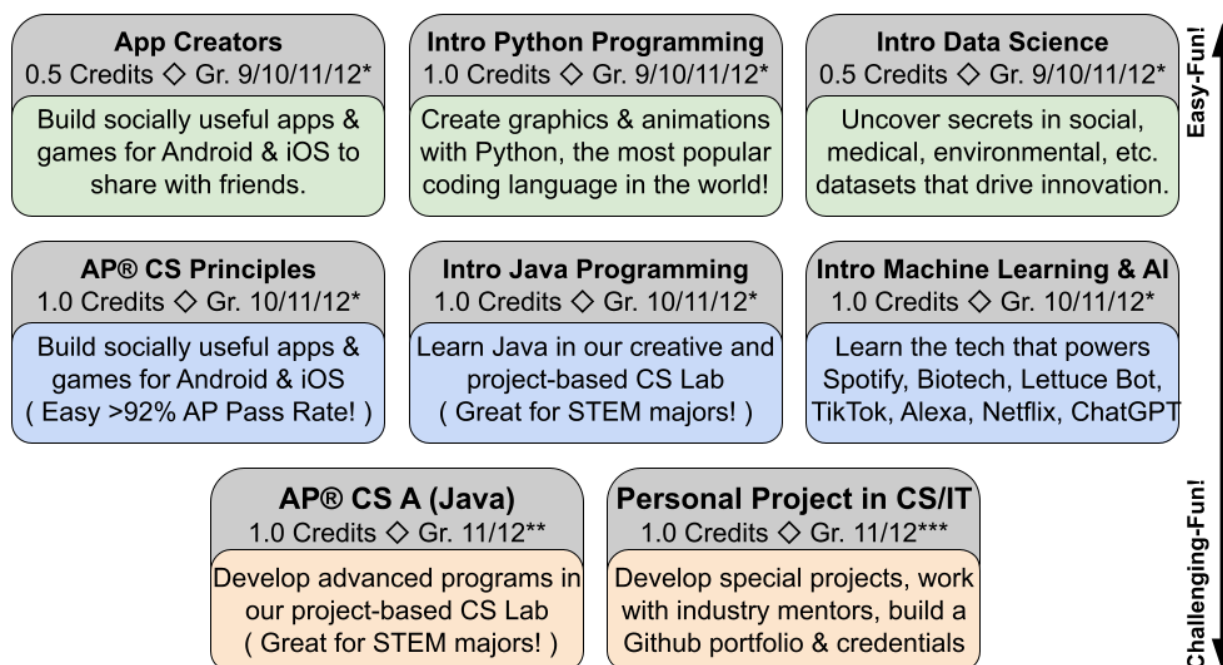
8732 Honors Introduction to Engineering I

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**

COMPUTER SCIENCE DEPARTMENT						
Course Number	Courses	*Code	Offered 23/24	Level	Credit	Grade Level
8216	App Creators for Android & iOS	S	☒	CP	.5	9, 10, 11, 12
8116	Introduction to Data Science	S	☒	CP	.5	9, 10, 11, 12
8111	Introduction to Python Programming	S	☒	CP	1	9, 10, 11, 12
8122	Introduction to Java Programming	S	☒	H	1	10, 11, 12
8222	Introduction to Machine Learning & AI	S	☒	H	1	10, 11, 12
8124	AP Computer Science Principles	S	☒	AP	2	10, 11, 12
8134	AP Computer Science A (Java)	S	☐	AP	2	11, 12
8132	Capstone: Personal Projects in CS/IT	S	☐	H	1	11, 12

*H= Humanities, S= STEM, A=Arts



*No prerequisites for *App Creators*, *Intro Python*, *Intro Data Sci*, *AP CSP*, *Intro Java*, *Intro ML & AI*

**No prerequisites for *AP CSA*, though some problem solving, coding, or honors coursework is helpful

***Prerequisites for *Special Projects in CS/IT*: at least 2.0 CS/IT credits with a B- or better average

Plainfield High School is committed to building student interest and engagement in computer science by encouraging all students to integrate computational thinking into their college and career pathways. Students pursuing careers in the Arts, Business, or Humanities can integrate a single, interdisciplinary CS elective into their personalized pathways. Students pursuing careers in Science, Technology, Engineering, and Mathematics (STEM) can integrate a personalized sequence of CS courses that provide marketable skills essential to their fields. Students create their own mobile apps, simplify and automate tasks in a variety of languages, find patterns and discern trends in real-world datasets, utilize machine learning and artificial intelligence, identify threats to privacy and security, and use cutting-edge makerspace technology. Student collaborate to create and present original solutions that can improve people's lives, and explore the ethical and societal issues that arise when disruptive innovations change how we live, work, and play.

As we strive to broaden participation in computing, we will realize the vision of Plainfield Public Schools CS for ALL SCRIPT team:

We believe in CS because all students must be empowered to create technology in a personalized, interest-driven learning environment that grows engagement, persistence, problem solving, and marketable skill sets those open opportunities in an increasingly complex world.

8111 Introduction to Python Programming

Credit 1

Introduction to Python Programming is a creative, hands-on, graphics-based course that teaches students how to code their own artwork and animations using Python—one of the most popular and versatile programming languages today. Students learn how to develop their own digital drawings, code mouse and keyboard events, implement simple logic, animate different types of motion, and apply other programming structures within a gamified environment (e.g., no quizzes or tests!). This engaging curriculum is adapted from Carnegie Mellon University’s award-winning CS Academy. No prior coding experience is required—all students are welcome!

8116 Introduction to Data Science

Credit .5

Data Science drives disruptive innovations in all career fields, from art to agriculture, biotech to business, engineering to ecology, and social media to sociology—just to name a few. Economist Steven D. Levitt calls this *Freakonomics*: a rogue curiosity that uncovers the hidden side of everything! Can happiness be measured? Does advertising really work? Is the gender pay gap real? Can healthcare be fixed? Did the *Endangered Species Act* endanger more animals? Introduction to Data Science (IDS) is an engaging, project-based course that uses easy-to-learn technologies to investigate real-world datasets (e.g., no quizzes or tests!). IDS empowers diverse students with marketable skill sets and interest-driven insights into the social, environmental, physical, and economic forces that shape their choices and lives. No prior coding experience is required—all students are welcome!

8122 Introduction to Java Programming

Credit 1

Introduction to Java Programming is a dynamic, hands-on course that empowers all students to develop creative solutions to a broad array of real-world problems. Students learn Java, a text-based programming language that is essential for aspiring STEM majors. Java is used in virtual telemedicine chatbots, social media and cloud computing, data mining and scientific research, special effects firms like Industrial Light and Magic, NASA mission software, hundreds of games, and many thousands of mobile apps. Students work both independently and collaboratively to grow the confidence and computational thinking skills that are in demand across all career fields. No prior coding experience is required—all students are welcome!

8124 Advanced Placement Computer Science Principles

Credit 2

Take out your phones—let’s create our own Android and iOS apps for college credit! In 2016, AP Computer Science Principles (AP CSP) set a record for the largest course launch in College Board history, and it is now widely considered to be the easiest of all AP classes (i.e., >90% of AP CSP students earn college credit!). AP CSP students learn how to apply an iterative design process similar to what artists, writers, scientists, and engineers use to bring innovative ideas to life. Students learn how to use MIT App Inventor—a user-friendly, block-based programming language—to develop their own socially useful mobile apps. Students also learn how to develop algorithms, analyze data sets to discover new knowledge, use abstractions to simplify programs, and investigate the societal impact of computing innovations. No prior coding experience is required—all students are welcome!

8132 Capstone: Personal Projects in CS/IT**Credit 1**

YOUR Passions + CS/IT = Impact! Personal Projects in CS/IT is the culminating capstone course for CS/IT Pathway students who are seeking to develop a professional portfolio and/or professional credentials as they prepare for college and career opportunities in all fields. This capstone course is student interest- and skill-driven: students will research, propose, plan, develop, and present personalized projects that grow their college and career readiness. These student-selected capstone projects might include, but are not limited to: developing their own marketable app and small business plan; developing a socially useful app to enter into a regional or national competition; designing an Internet of Things (IoT) innovation; preparing for and participating in a hackathon; developing an automated arts installation or performance; developing a machine learning and artificial intelligence model; earning industry credentials (e.g., CompTIA ITF+ or A+, Cisco Certified Technician, Apple Device Support, Amazon Web Services Educate, Microsoft Azure Fundamentals, etc.). To enroll in this capstone course, students must complete at least 2.0 CS/IT prerequisite credits with a B- or better average.

8134 Advanced Placement Computer Science A (Java)**Credit 2**

AP Computer Science A (AP CSA) is a deep-dive into programming in Java—the #1 developer platform in the world now running on 13 billion devices. Fundamental topics in AP CSA include the design and analysis of solutions to real-world problems, the use of data structures to organize large data sets, the development and implementation of algorithms to process data and reveal new knowledge, and the ethical and social implications of computing innovations. AP CSA emphasizes an object-oriented programming and design paradigm (i.e., similar to Python, C++, C#, PHP, Ruby, etc.). AP CSA also includes many creative, hands-on labs and design challenges that engage students through individual and small group problem solving. AP CSA is an ideal capstone computing course for aspiring STEM majors. AP CSA does not have any prerequisites, however some previous experience with computer programming and/or honors-level STEM courses will help prepare students for success in this rigorous capstone-level course.

8216 App Creators for Android and iOS**Credit .5**

Take out your phones—let's create our own Android and iOS apps to share with friends! App Creators is a fun, project-based course that teaches students how a user-friendly, block-based programming language can be used to develop their own mobile apps. Student-created apps include: music apps, animation apps, language translation apps, health & fitness apps, social media apps, environmental apps, culinary apps, and many original games (e.g., no quizzes or tests!). Students learn how to apply an iterative design process similar to what artists, writers, scientists, and engineers use to bring innovative ideas to life. All students in App Creators grow the confidence and computational thinking skills that are in demand across all career fields. No prior coding experience is required—all students are welcome!

8222 Introduction to Machine Learning and AI**Credit 1**

Introduction to Machine Learning and Artificial Intelligence (ML & AI) is a hands-on course that teaches students how to use the disruptive technologies driving TikTok, Netflix, Spotify, Siri, Amazon Alexa, ChatGPT, Google Maps, Guardant Galaxy AI cancer testing, and Tesla Autopilot—just to name a few. Student learn how to train their own teachable machine, design their own machine learning app, use makerspace hardware to develop Internet of Things (IoT) projects (e.g., pet feeder, plant care, sync mood lights to music), and progress to using Python tools and libraries for AI. Not sure if this course is for you? Visit willrobotstakemyjob.com to find out. No prior coding experience is required—all students are welcome!

HEALTH / PHYSICAL EDUCATION DEPARTMENT

Course Number	Courses	*Code	Offered 23/24	Level	Credit	Grade Level
6815	Health I	H	☒	AC	0.5	9, 10, 11
6825	Health II	H	☒	AC	0.5	10, 11, 12
6915	Basic Physical Education	H	☒	AC	0.5	9, 10
6935	Personal Fitness Physical Education	H	☒	AC	0.5	11, 12
6945	Elective Physical Education	H	☒	AC	0.5	11, 12
9660	Life Occupational Skills	H	☒	AC	1	9, 10, 11, 12

*H= Humanities, S= STEM, A=Arts

6815 Health I

Credit .5

This course is a requirement for all students. The units covered are Health and Wellness, Nutrition, Community and Consumer Health, Physical, Mental and Social Health including youth suicide prevention, Dating Violence, Gender Tolerance. Personal Care and an introduction to Anatomy and Physiology.

6825 Health II

Credit .5

This course is a requirement for the Class of 2023 and beyond. The units covered are Genetics, Communicable and Non-Communicable Diseases, Disease Prevention, Substance Abuse Prevention (Alcohol, Tobacco, Vaping and Drugs), Safety and Environmental Health, 1st Aid, CPR and AED System.

6915 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.

6935 Personal Fitness

Credit .5

This is an elective class for 11th and 12th graders who have completed 1 credit of Basic Physical Education. Students will participate in workouts including a combination of aerobic, strength, cardio-respiratory endurance and training activities in the fitness room or lower weight room. **Prerequisite: 1 credit of Basic PE and must be an 11th or 12th grader.**

6945 Elective Physical Education

Credit .5

This is an elective class for 11th and 12th graders. 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.**

9660 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)

HEALTH OCCUPATIONS DEPARTMENT						
Course Number	Courses	*Code	Offered 23/24	Level	Credit	Grade Level
8631	CP Exploring Careers in Healthcare	H	<input type="checkbox"/>	CP	1	11, 12
8641	CP Certified Nursing Assistant	H, S	<input type="checkbox"/>	CP	1	12

*H= Humanities, S= STEM, A=Arts

8631 College Prep Exploring Careers in Healthcare

Credit 1

This introductory course will expose 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 health care related career would benefit from taking this course.

8641 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 II, Chemistry, Or *with a grade of 85 or better: CP Biology*, CP Algebra II*, Chemistry, Concurrent enrollment in CP Anatomy & Physiology is strongly recommended.