ALVIRNE HIGH SCHOOL

PROGRAM OF STUDIES



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SECTION 1



Statement of Non-Discrimination

The Hudson School District does not discriminate in the administration of its admissions and educational programs, activities, or employment practices on the basis of race, color, religion, national origin, age, sex, disability, sexual orientation, or marital status. This statement is a reflection of the Hudson School District and refers to, but is not limited to the provisions of the following laws:

Title VI and VII of the Civil Rights Act of 1964
The Age Discrimination Act of 1967
Title IX of the Education Amendments Act of 1972
Section 504 of the Rehabilitation Act of 1973
The Americans with Disabilities Act of 1975
NH Law against Discrimination (RSA 354-A), and State Rule: ED 303.01(i),(j),(k)

The Title IX Coordinator is the HR Director of SAU81, Hudson, NH 03051.

The Section 504 Coordinator is the Director of Student Services, 20 Library Street, Hudson, NH 03051.

Inquiries may also be directed to:

The US Department of Education, Office for Civil Rights, Region 1, J.W. McCormack Post Office and Courthouse Building, Room 222, Boston, MA 02109-4557 (617-223-9696)

Equal Opportunity Employment Commission, JFK Federal Building, Room 475, Government Center, Boston, MA 02201 (617-565-3200)

NH Commission for Human Rights, 2 Chennell Drive, Concord, NH 03301 (603-271-2767)

A lack of English language skills will not be a barrier to admission or participation to any program at Alvirne High School.

Hudson School District

20 Library Street Hudson, NH 03051 603-886-7765 www.sau81.org

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Alvirne High School's Vision

Preparing students for success in their personal, professional, and civic lives

Alvirne High School's Mission

We are a community of thoughtful, articulate, and skilled learners who:

- Aspire to gain understanding about ourselves, the community, and diverse fields of study that will sustain us throughout our lives;
- Honor our core values;
- Support all members of our community as we strive to meet the dynamic challenges of the future through a process of continuous growth.

We are a community of thoughtful, articulate, and skilled learners, who seek to gain understanding about ourselves, the world, and diverse fields of study that will sustain us throughout our lives as we strive to meet the dynamic challenges of the 21st century. In partnership with families and the Hudson community, the staff and students of Alvirne High School commit to creating a safe and positive learning environment defined by these values.

- Character the combined qualities of integrity, kindness, tolerance, humility, and respect
- Curiosity the life-long enjoyment of and passion for learning
- **Commitment** the work ethic, independence, and responsibility developed by diverse and challenging programs
- Community pride in our school, ourselves, and in our service to others

Consistent with our core values and beliefs, our graduates will meet the following 21st Century learning expectations:

Academic Competencies

Communicate

Students will communicate effectively using multiple forms and mediums for a variety of academic, civic, personal, career, and artistic purposes.

Inquire

Students will develop reading, research, listening, and observation skills as well as aesthetic awareness through engagement with authentic, inquiry-based experiences.

Think

Students will think critically, creatively, adaptively, and reflectively to solve problems and enhance their understanding of the world around them.

Apply Real World Skills

Students will integrate knowledge and skills with real-world applications.

Use Tools and Technology

Students will use tools and technology responsibly to enhance and express their learning.

Social and Civic Competencies

Work Together

Students will work collaboratively and form positive relationships that respect individual differences and beliefs.

Do the Right Thing

Students will demonstrate ethical conduct, responsibility for their own actions, and respect for the needs and rights of others.

Get Involved

Students will become active and informed citizens who make positive contributions to their school, local, and global communities.

Hudson School District's Portrait of a Graduate

Responsibility

I am a self-directed and responsible learner who is driven to achieve success for my education and future by:

- Using resources effectively to complete assigned tasks in a timely manner and according to classroom procedures.
- Taking ownership for my next steps for learning and challenge myself even when learning may be difficult.
- Reflecting on and adapting my approach to learning by identifying my strengths.
- Developing solutions to problems that I encounter and identifying misunderstandings.
- Accessing multiple appropriate resources to answer my questions.
- Understanding that my educational responsibilities extend outside of school.

Communication

I use various media and tools (personally and digitally) to connect and engage effectively with others to share and develop ideas by:

- Reading and comprehending instructional level literary and informational text and expressing my understandings appropriately to a target audience.
- Writing coherent sentences and paragraphs consistent with instructional level expectations and expressing my understanding to a target audience.
- Communicate clearly respective of the audience and purpose.
- Respectfully listen to, with eye contact, and provide various points of view.
- Working with others to find solutions to problems.
- Identifying misunderstandings in order to clarify thinking or communication.
- Using technology appropriately.

Citizenship

I demonstrate the traits that ethical, responsible, contributing citizens exhibit in a healthy community environment by:

- Conducting myself as a socially and civically responsible citizen in person and online.
- Adhering to rules and laws to ensure safety and security in the community in person and online.
- Using expected behavior in both familiar and unfamiliar settings.
- Presenting myself appropriately in appearance, attitude, and conduct in person and electronically both at home and at school.
- Taking pride in work, school, and community.
- Respecting school materials and property.
- Accepting consequences for my actions.
- Acknowledging that my individual actions can impact either positively or negatively to self and others.

- Increasing my exposure with others' diversity of thought and being.
- Pursuing a healthy lifestyle that includes physical activity and healthy eating.

Competency-Based Grading System

Each course reports an overall, cumulative grade as well as a breakdown of the proficiency levels in each competency, both of which can be accessed in live time on the Quick Lookup area of the parent and student portal. Report cards are posted to the Power School Portal after each quarterly marking period.

- Each quarterly report card will reflect the current, cumulative progress in the course and not an isolated, 45-day calculation.
- Current progress in course competencies will also be included on the report card. Students must be meeting or exceeding expectations (ME or EE) at the conclusion of the course in order to earn credit. As all courses are still in progress at the end of quarter one, students still have time to improve their overall grades and competencies.
- Official AHS transcripts report only final grades for each course and the career GPA.
- Honor Roll and co-curricular eligibility continue to be based on the quarterly GPA.

Cumulative Grades

Letter grades and other symbols are used to represent levels of academic achievement, which factor into a student's grade point average (GPA) on the official high school transcript. Honors courses are weighted an additional .3 GPA value and Advanced Placement (AP) courses are weighted an additional .6 GPA value.

Grade	Correlation	GPA Value	Honors-Level GPA Value	AP-Level GPA Value
A+	98-100 %	4.3	4.6	4.9
A	93-97 %	4.0	4.3	4.6
A-	90-92 %	3.7	4.0	4.3
B+	87-89 %	3.3	3.6	3.9
В	83-86 %	3.0	3.3	3.6
В-	80-82 %	2.7	3.0	3.3
C+	77-79 %	2.3	2.6	2.9
С	73-76 %	2.0	2.3	2.6
C-	70-72 %	1.7	2.0	2.3
D+	67-69 %	1.3	1.6	1.9
D	63-66 %	1.0	1.3	1.6
D-	60-62 %	0.7	1.0	1.3
F	0-59 %	0	0	0
PC*	Passed Competencies	0	0	0
FC**	Failed Competencies	0	0	0
I	Incomplete	0	0	0
EA	Excessive Absences	59%	% calculated for te	erm grade

^{*}Classes with PC grades are awarded credit with a zero GPA value.

Competency Levels

Competencies are the core skills and concepts that are essential to each course at Alvirne High School. In order to earn course credit, students must meet expectations (ME) or exceed expectations (EE) in all identified competency areas. This will be accomplished by demonstrating proficiency on key, major assessments (Student Mastery Assessments or SMAs) within the competency.

^{**}The original grade and GPA value is reinstated upon successful remediation of failed competencies (FC) classes.

Level	Description
EE	Exceeding Expectations: Student is exceeding proficiency standards for this competency.
ME	Meeting Expectations: Student is meeting proficiency standards for this competency.
AE	Approaching Expectations: Student is approaching proficiency standards in this competency.
NI	Needs Improvement: Student has not yet met proficiency standards for this competency.
MNC	Missing No Credit: Sufficient evidence has not been provided to assess proficiency standards.

Honor Roll

Honor roll is determined at the end of each quarterly marking period using the following standards:

- High Honors with Distinction: 4.0 GPA (no grade below a B-; Meeting/Exceeding all competency expectations)
- High Honors: 3.7 GPA (no grade below a B-; Meeting/Exceeding all competency expectations)
- Honors: 3.3 GPA (no grade below a C+; Meeting/Exceeding all competency expectations)

Students must be enrolled in at least six course credits with no incomplete (I) grades to be eligible for honor roll status.

Class Rank

Class rank is determined through the cumulative average of final grades (calculated to the hundredth place) for all credits earned and reflects weighting for both honors and AP courses. A student's class rank appears on the official transcript and is available to colleges and other post-secondary institutions upon release by the student or the student's parent/guardian. Class rank for graduating seniors is determined after seven semesters of high school study at the conclusion of the first semester of the school year. The class Valedictorian, Salutatorian, and Class Essayist are named at this time.

Honors Graduates

Seniors in the graduating class of 2025 earning a 3.0 career grade point average will be recognized as Honors Graduates as determined after seven semesters of high school study. Seniors achieving this distinction will be recognized in the graduation program and with an award to be worn at graduation. The weighted grade point average is calculated to the hundredths place, with no rounding up or rounding down. A student, therefore, achieving a cumulative 2.99 GPA does not qualify for Honors Graduate recognition.

Seniors in the graduating class of 2026 and later, will be recognized as Honors Graduates if they earn a 3.3 career grade point average.

Graduation Requirements – Traditional 24 Credit Diploma

Included in the table below are links to course descriptions. For example, if you click on "Fine Arts" you will be brought to the table of all art and music courses, where you will be able to click on a link to the course. Additionally, there are course specific videos included in the table. Click on the video links to hear more.

Subject	Credits	Required Courses
Arts Education and Music	.5	Art or Music Education
Drawing & Painting Video		
English (taken each year)	4	American Humanities – Junior Year (1 cr.) * Capstone – Senior Year (.5 cr.)
English Video		
<u>Digital Literacy</u>	.5	Technology Embedded Courses (.5 cr.)
Mathematics (taken each year, 4 th credit can be an embedded math experience)	4	Algebra 1 (1 cr.)
Mathematics Video		
Physical Education	1.5	Wellness (1 credit)
Science	3	Earth/Physical Science//1 cr.)

		Biology (1 cr.)
		Chemistry or Physics (1 cr.)
Science Video		
Social Studies	3	World Studies (1 cr.)
		American Humanities – Junior Year (1 cr.) *
		U.S. & NH Government (.5 cr.)
		Economics (.5 cr.)
Social Studies Video		
Subject	Credits	Elective Courses
Open Elective Courses	7.5	In addition to the courses in the subject areas above,
		other open elective options include:
		Career and Technical Education, Family and
		Consumer Science, and Foreign Language
Spanish Video		

^{*}Humanities meets daily and is taught by an English teacher and a Social Studies teacher. 2 credits are earned for successful completion of this course (1 credit in English and 1 credit in Social Studies)

Embedded Course Offerings

Math En	nbedded Courses					
	by be used to fulfill the fourth math credit as a math experience)					
Accounting I, II	Engineering I, II					
AP Chemistry	Heavy Duty Mechanics II					
AP Physics I	Marketing II Honors					
Baking & Pastry	Personal Financial Literacy					
Chemistry CP	Physics CP					
Chemistry Honors	Physics Honors					
Computer Science I, II	Veterinary Science II Honors					
Construction II	Welding & Fabrication II					
Culinary Arts II Honors						
•						
Digital Litera	cy Embedded Courses					
(These courses contain technology usage and	may be used to fulfill the digital literacy requirement)					
Accounting I, II (class of 2026 only)	Introduction to Digital Media					
Coding and Gaming	Introduction to Graphic Design					
Computer Science I, II	Marketing I					
Digital Media I, II	Personal Financial Literacy					
Engineering I, II	Portfolio with pre-approval					
	on Embedded Courses					
	nay be used to fulfill the arts education requirement)					
Digital Media I, II	Retail Florist I, II					
~	mbedded Courses					
	d may be used to fulfill the earth science requirement)					
JROTC Science of Aviation						
	eive 2 credits for one course.					
	For example, if a student takes Engineering I Honors as their math experience, they get 1 credit for math. They cannot then get					
another credit for an elective.						

SECTION 2



Course Offerings

ARTS EDUCATION AND MUSIC

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH		GRA	DES	
Advanced Ceramics	.5	Semester		10	11	12
Advanced Studio Arts	.5	Semester		10	11	12
<u>Chamber Choir</u>	1	Year-Long		10	11	12
Children's and Comic Book Illustrations	.5	Semester	9	10	11	12
Concert Band	1	Year-Long	9	10	11	12
Concert Choir	1	Year-Long	9	10	11	12
<u>Digital Photography</u>	.5	Semester		10	11	12
Digital Photography II	.5	Semester		10	11	12
Drawing and Painting	.5	Semester	9	10	11	12
Drawing and Painting II	.5	Semester		10	11	12
Fiber and Textile Arts	.5	Semester	9	10	11	12
History of Rock n' Roll	.5	Semester	9	10	11	12
Interior Design	.5	Semester	9	10	11	12
Introduction to Ceramics	.5	Semester	9	10	11	12
Introduction to Graphic Design	.5	Semester	9	10	11	12
Intro to Guitar	.5	Semester	9	10	11	12
Jazz Band	1	Year-Long	9	10	11	12
Mixed Media	.5	Semester	9	10	11	12
Music Theory	.5	Semester	9	10	11	12
Piano Lab	.5	Semester	9	10	11	12
Symphonic Band Honors	1	Year-Long	9	10	11	12

COURSE DESCRIPTIONS

Advanced Ceramics Semester course

Advanced Ceramics will build upon the knowledge and skills gained in Introduction to Ceramics. Students will continue to develop their skills in hand building and wheel throwing. In this course students will have the opportunity to focus on sculptural or hand building techniques that help them express their artistic vision. Students will learn different glazing techniques to achieve desired appearance and aesthetic, as well as to express their creativity. Weekly class critiques will be conducted, and students will be required to keep an up-to-date sketchbook. This curriculum will reflect a more open-ended design, with a focus being on technique and process. Students will be introduced to more complex concepts and vocabulary incorporating artistic perception, creative expression, historical/cultural context, making connections and relationships to student's interests and future career opportunities. This course can be retaken over the duration of a student's high school career as they enhance their technical and artistic skills, create a body of work, and build a portfolio.

Prerequisite(s): Introduction to Ceramics

Advanced Studio Arts Semester course

Advanced Studio Arts is a high-level course offered to students who wish to develop their technical artistic skills and develop a more sophisticated approach to process and subject matter while creating a solid body of original artwork. Students who take this course keep an artist journal to explore artistic process, media experimentation and teacher-student discussions to support the process, analysis, reflection, and refinement of work. Students will submit a portfolio for review at the end of each semester. While the portfolios are oriented specifically for the advanced studio art practices, the work may also be for exhibition, for enhancing the college application process, and may be submitted for scholarship considerations.

This class may be taken by students who wish to put together a portfolio for college applications and is appropriate for students with strong, independent motivation and a desire to become a mature artist. This course can be retaken over the duration of a student's high school career as they enhance their technical and artistic skills, create a body of work, and build a portfolio.

Prerequisite(s):: Any intro level course – Drawing and Painting, Children's and Comic Book Illustrations, Mixed Media, or Digital Photography (with instructor approval)

Chamber Choir Year-long course

Chamber Choir ("B Naturals") is an auditioned group which involves the performance of standard and contemporary vocal literature. The performance of various arrangements in the SATB repertoire helps students experience proper rehearsal procedure, choral blend, balance, and technique. An emphasis is placed on community service through performance. Students in this ensemble are highly encouraged to take private lessons. Students are urged to give of their time in order to reach those in the community who cannot attend public or school performances. This course can be taken for Honors credit by completing additional auditions and projects under the direction of the teacher. Pianists are urged to audition as accompanists. This course may be repeated.

Prerequisite(s): None

Children's and Comic Book Illustration

Semester course

This course will allow for students to explore the art within the pages of a book from graphic novels, comics, children's books, visual journals, etc. Students will learn the process of creating their own book from story boarding, color studies, edits, final rendering, and the publishing process. Students will be able to create successful page spreads in various media as well as considering elements and principles of art and activating an entire page incorporating text. Students will be able to explore the different areas of graphic novels, comics, children's books, and visual journals to create a final book that is ready to be pitched to a publishing agency!

*If a student has a drawing tablet, this may be used but is not required.

Prerequisites(s): None

Concert Band Year-long course

Concert Band is a non-auditioned instrumental ensemble in which students study and perform standard and contemporary wind band literature. Performance of various musical styles as well as composition, arrangement, and self-guided musicianship projects help students to develop musical literacy, proper instrumental technique, and ensemble performance skills. Concert performances are a requirement. Participation in marching band is required for first-year members. This course may be repeated.

Prerequisite(s): None

Concert Choir Year-long course

Concert Choir is a non-auditioned vocal group, singing a variety of standard and contemporary music. Performance of various SAB and SATB arrangements help the student to experience proper rehearsal procedures, vocal technique, choral blend, balance, and style. This course is offered to all students whose interest is of a general nature, and to those who anticipate singing at the college or community level. Concert performances are a requirement. Students are urged to give of their time in order to reach those in the community who cannot attend public or school performances. This course can be taken for Honors credit by completing additional auditions and projects under the direction of the teacher. This course may be repeated.

Prerequisites(s): None

Digital Photography Semester course

Digital Photography offers the opportunity for students to initially learn the needed technical and aesthetic skills to make quality digital photographs and prints while using a DSLR camera. Students will then explore the visual art elements and principles while they challenge themselves to create work that celebrates their own individual identity and self-awareness, in addition to their view of the world and people around them. Students will learn about communicating and creating meaning and narrative via the camera. **Prerequisite(s):** None

Digital Photography II Semester course

Digital Photography II is offered to students who have completed the first Digital Photography elective and are looking to further hone their skills on the DSLR camera. In Photo II, students will tackle topics such as photojournalism, dynamic range, conceptual

photography, and advanced editing. They will also gain expertise using different lenses, filters and other tools as they develop a photographic digital portfolio.

Prerequisite(s): Digital Photography

Drawing and Painting Semester course

In Drawing and Painting students will start to develop the drawing skills fundamental to all art media, art courses and most careers in art. They will demonstrate these skills in painting, design, and other 2-dimensional media. They will experience the organization of the art elements and principles while they experiment with a variety of 2-dimensional art techniques and mediums. Primarily they will use contour, freehand and observational techniques to render works. Creative art projects will be explored using graphite pencil, marker, charcoal, ink, pastel, and colored pencil. Painting media will include tempera and watercolor, and mixed media through collage. Possible subject areas are still-life, fantasy, nature, and portrait studies. Design techniques will be also explored to highlight current trends and students' interests. Students will study artists, cultures, aesthetics, and art history.

*Sketchbook/Journal is required.

Prerequisite(s): None

Drawing and Painting II Semester course

Drawing and Painting II is designed to build upon the skills students learned in Drawing and Painting. In this course, students will have the opportunity to delve more deeply into the social, historical and cultural impact of art-making through the creation of their own art. This course offers students the chance to refine their skills with drawing and painting materials they are familiar with, as well as gain experience with new media. Students will create projects at a larger scale to facilitate the development of a portfolio. **Prerequisite(s):** Drawing and Painting

Fiber and Textile Arts Semester course

This course will focus on a variety of techniques for manipulating fabric and fibers, including sewing and quilting, embroidery, felting, knitting and crochet, soft sculpture, and weaving. Students will use the elements of art and principles of design to create functional and decorative art objects that express their own personal tastes and interests. While creating work, students will also explore historical and contemporary fashion, quilting, textile design, weaving, knitting and crochet.

Prerequisite(s): None

History of Rock n' Roll Semester course

This course is a survey of the growth and development of rock music, beginning with the study of Afro-American field songs and chants, up to and including rock styles of the 1970's. The basic elements of music: rhythm, melody, harmony, tone color, forms and texture are studied. Students will explore the history of the artform through research projects, podcasts, and other various projects throughout the semester. This course may not be repeated.

Prerequisite(s): None

Interior Design Semester course

In this course, students will learn to create functional and attractive designs for a variety of applications using the elements of design. They will learn the process of conceptualizing a design, curating their work, and creating a proof of concept to communicate their work to a client. Students will have the opportunity to explore a wide variety of design ideas in housing, commercial interiors, and set design for movies and television, and will learn a variety of ways to present concepts to clients for each application. This course will include 2D and 3D hands-on projects that will hone skills in drawing, composition, curation, and personal taste.

Prerequisite(s): None

Introduction to Ceramics Semester course

Introduction to ceramics is designed for students who are interested in art and really enjoy hands-on learning. Over the semester, students will create projects using basic hand-building techniques and may also learn how to throw basic forms such as bowls and cylinders on the wheel. Using hand building techniques, they will make various pieces including mugs, geometric and organic

forms, and other functional and non-functional pieces. Through each project, students will learn about the various methods of surface treatment, firing, and design. The course will also explore the tradition and history of ceramics as both an art form and a practical skill.

*This introductory art course is a foundation for Advanced Ceramics.

Prerequisite(s): None

Introduction to Graphic Design

Semester course

Introduction to Graphic Design introduces students to basic graphic design techniques used by commercial and visual artists while exploring the elements and principles of art. Students will learn basic Adobe Photoshop, music mixing and movie maker skills while applying the fundamentals of design, layout, composition, and typography in the digital realm. Projects may include digital collage and composite imagery, masking and photo and digital editing, using typography though creating original logos, posters and designs, as well as vector and raster image manipulation. This introductory art course satisfies the fine arts requirement for graduation. A journal may be required for assignments. This class has no advanced or repeatable option.

Prerequisite(s): Successful completion of the middle school ICT requirements

^This course satisfies the fine arts requirement.

Intro to Guitar Semester course

This course is intended for the non-guitarist. All students will learn basic music theory, chord positions and chord progressions. Weekly performances are a requirement and enrollment is limited to 14 students. Acoustic guitars are provided by the school, but students may choose to bring their own *acoustic* guitars (electric guitars are not permitted). This course may not be repeated. **Prerequisite(s):** None

Jazz Band Year-long course

Jazz Band is an auditioned instrumental ensemble in which students study and perform standard and contemporary jazz literature in a variety of musical styles. Students must be able to perform and read music on one of the following instruments: saxophone, trumpet, trombone, piano, string bass/bass guitar, guitar, vibraphone, and drum set. Listening exercises, development of improvisational skills, and arrangement projects are designed to enhance students' understanding of performance practices in the jazz idiom. Concert performances are a requirement. This course can be taken for Honors credit by completing additional auditions and projects under the direction of the teacher. This course may be repeated.

Co-requisite requirement: Enrollment in Concert Band or Symphonic Band Honors*

*Exceptions must be approved by the District Director of Music

Mixed Media Semester course

This course will offer in-depth exploration of techniques and new ways to see, use, and interpret found objects. Students will create multi-directional compositions with a variety of materials, paint, images, found objects, and drawing media. Techniques will include collage, monotype printing, drawing, painting, mixing, fiber arts, assemblage, cutting, and pasting, etc. This course is designed to give students a wide variety of art making experiences and allows students to continue to explore various visual art forms and techniques through the elements and principles of art and design. Students will produce original artworks and learn skills and techniques associated with a variety of art media. Students will develop technical skills and personal style. Students explore the world of relief. Both traditional and non-traditional approaches are taught. Many projects may include ordinary objects that can be transformed into creative works of art.

Prerequisite(s): None

Music Theory Semester course

This course teaches fundamental music theory skills. Students enrolled in this course learn to read, write, and understand the symbols of music notation. No formal study in music is required. Classroom instruction will also include sight singing, ear training, rhythmic dictation as well as performance and listening activities. The material covered in Music Theory provides a firm foundation for more advanced studies in music. This course may not be repeated.

Prerequisite(s): None

Piano Lab Semester 1 course

This course is intended for the non-pianist. Fundamental instruction will be given on electronic keyboards. The student will learn to read music notation, chords, melody, and accompaniment in a variety of styles such as Classical, Rock, and Blues. Students are required to perform weekly. Enrollment is limited to 10 students. This course may not be repeated.

Prerequisite(s): None

Symphonic Band Honors Year-long course

Symphonic Band is an auditioned instrumental ensemble which serves as the Honors credit component of Concert Band through concurrent enrollment. Students in this ensemble will study and perform advanced standard and contemporary wind band literature beyond what is required of Concert Band. Rehearsals for Symphonic Band occur three mornings per week before school. Participation in marching band is a requirement for all students enrolled in Symphonic Band. This course may be repeated. **Prerequisites(s):** None

ENGLISH (Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH		GRA	ADE	
American Humanities CP^	1	Year-long			11	
AP American Humanities^	1	Year-long			11	
AP Literature and Composition^	1	Year-long				12
Creative Writing^	.5	Semester		10	11	12
Debate and Civil Discourse CP^	.5	Semester				12
English 9 CP^	1	Year-long	9			
English 9 Honors [^]	1	Year-long	9			
English 9 Workshop	1	Year-long	9			
English 10 CP [^]	1	Year-long		10		
English 10 Honors^	1	Year-long		10		
English 10 Workshop	1	Year-long		10		
Fairytales, Myths, and Legends [^]	.5	Semester		10	11	12
Genocide Studies CP^	.5	Semester			11	12
Modern American Lit through Sports CP	.5	Semester		10	11	12
Reading & Writing Across the Curriculum	.5	Semester	9	10	11	
Senior English Capstone^	.5	Semester				12
Senior English Capstone – An Educator's Experience	.5	Semester				12
True Crime and Detective Literature CP^	.5	Semester			11	12
Visual Communication through Screens, Scripts, and Social Media	.5	Semester		10	11	12

[^]NCAA Approved

COURSE DESCRIPTIONS

American Humanities CP (Double block)

Year-long course

Students in this course will explore American culture through the study of history, literature, art, music, film, and television. This interdisciplinary program is team-taught by two teachers, one from the English department, and one from the Social Studies Department. The course meets daily and satisfies the junior English and History requirements. The course places emphasis on group cooperation and self-motivation. Students enrolling in American Humanities can select to pursue additional study and earn an honors level designation on their transcript. In addition to maintaining an 85 percent average in the regular course expectations, honors students will be expected to complete independent reading, upper-level writing, special projects, presentations, and summer assignments.

Prerequisite(s): English 9 and English 10

AP American Humanities (Double block)

Year-long course

This intensive, college-level study of American history, literature, culture, and thought prepares students to take both the Advanced Placement United States History and Advanced Placement English Language and Composition exams. Through this interdisciplinary approach co-taught by a history and English teacher, students will grow in their capacity to think, read, view, analyze, synthesize, and evaluate critically, as they engage with a wide variety of written, visual, and aural texts, with an emphasis on primary sources and their interpretation. Students will also learn how to communicate and collaborate in effective and powerful ways through daily writing, discussion, and presentation activities.

This course meets daily and satisfies both the junior English and US History requirements. Completion of one or both AP US History and AP English Language and Composition exams in May are mandatory for all students.

Prerequisite(s): AP US History I and Honors English 10 (or permission)

AP Literature and Composition

Year-long course

This course is offered for students with outstanding reading, writing, and speaking skills, strong motivation and self-discipline, and a desire to deal with the complex literature of the British literary heritage, as well as the key standards of a college-level composition course. Students prepare to take the Advanced Placement Literature and Composition exam given annually in May. Summer assignments and recommendation from eleventh-grade English teacher required. **Students are required to take the AP exam in May. Capstone competencies are embedded in this AP course.**

Prerequisite(s): English 9

Creative Writing CP Semester course

This course is designed for students who enjoy creative expression in their writing. Students explore original fiction, poetry, and other creative forms such as personal essays. A writing workshop approach is used to emphasize writing as a process, including peer editing, teacher commentary, multiple drafts, and sharing of work. Regularly scheduled writing prompts, selected essays, short fiction, plays, non-fiction, various supplemental media, and relevant film clips for each type of writing support the creative writing process.

Prerequisite(s): English 9

Debate and Civil Discourse CP Semester course

Making, critiquing, debating, and assessing arguments in society is required if you wish to be an engaged citizen and thoughtful critical consumer of media and communication. In this course, you will learn the introductory principles of argumentation, logic, and debate. We will survey different models of argument, learn how to structure and support arguments, and practice those skills in individual speaking, partnered, and group contexts. You will participate in formal debates with classmates on issues of social importance.

Prerequisite(s): English 9

English 9 CP Two-semester course

This course introduces students to various forms and types of literature while developing the skills to also enjoy and appreciate reading. This class will focus on analyzing and interpreting literature and informational texts by reading a various number of short stories, non-fiction articles, excerpts, and full-length novels. A strong emphasis of the course will be focusing on writing narrative, argumentative, and expository essays. All classroom instruction and work assigned aligns with state standards and aims to build students who will become life-long learners.

Prerequisite(s): None

English 9 Honors Two-semester course

This course takes a thematic approach to the study of literature to prepare students for college success. Students will develop independent strategic reading and writing skills while exploring relevant and dynamic universal themes. Classroom instruction emphasizes vocabulary development, fluency, and comprehension strategies that align with state standards. Students in this level should be reading and writing above grade level, and must be prepared to accept more responsibility, rigorous expectations, and increased workload when it comes to independent reading, critical thinking, communication, and writing. This course aims to build

lifelong literacy skills, ensuring that students are prepared for advanced English coursework, standardized assessments, and meaningful engagement with a wide variety of complex text.

*Recommendation of 8th grade teacher. A summer reading assignment and independent reading throughout the school year will be required.

Prerequisite(s): None

English 9 Workshop Two-semester course

This class is designed to support students in their journey to improve their reading comprehension, vocabulary, and writing skills. Through small group instruction, students will build skills in critical reading, expressive writing, and meaningful analysis that aligns with our state standards. This class provides a supportive environment where students can develop confidence in both reading and writing, as they will receive constant feedback and targeted instruction. All classroom instruction aims to build students who become life-long learners.

Prerequisite(s): None

English 10 CP Two-semester course

The sophomore curriculum is built around four quarterly units integrating core language arts skills with poetry, media, research, and drama. Throughout the year students explore the theme of the individual's encounter with society to explore the tensions between individuality and assimilation to social expectations. In addition to literature and writing, and intensive study of critical reading, the writing focus is expository, highlighting fundamental forms: analytical, descriptive, narrative, and persuasive, which help get students ready for the and future classes.

Prerequisite(s): English 9 CP or teacher recommendation

English 10 Honors Two-semester course

This rigorous course is designed for students with outstanding reading, writing, and speaking skills. This course is designed for students with strong self-motivation and self-discipline, as well as the passion and desire to deal with complex literature. A selection of novels, plays, non-fiction, and excerpts are studied. All these texts align with our state standards. Major emphasis is placed on the writing process and the completion of writing assignments of various types. A teacher recommendation will also be required to be considered for the honors program.

*This course is a prerequisite for AP American Humanities.

Prerequisite(s): English 9 CP or teacher recommendation

English 10 Workshop Two-semester course

This class is designed to support students in their journey to improve their reading comprehension, vocabulary, and writing skills. Through small group instruction, students will build skills in critical reading, expressive writing, and meaningful analysis that aligns with our state standards. This class provides a supportive environment where students can develop confidence in both reading and writing, as they will receive constant feedback and targeted instruction. All classroom instruction aims to build students who become life-long learners.

Prerequisite(s): English 9

Fairy Tales, Myths, and Legends CP

Semester course

Mighty heroes. Angry gods and goddesses. Cunning animals. Fairy tales, myths, and legends have been used since the first people gathered around the fire as a way to make sense of the world. Through the lens of these genres, students will journey with ancient heroes as they slay dragons, challenge the gods, follow fearless warrior women into battle, and watch as clever animals outwit those stronger than themselves. They will also explore the universality and social significance of these stories from diverse cultures around the world and consider how they still reflect and shape society today.

* Embedded Honors Option Prerequisite(s): English 9

Genocide Studies CP Semester course

"Never again" is the solemn vow made by liberated Buchenwald concentration camp prisoners and has become a haunting reminder of our responsibility to learn the lessons of the past to prevent future atrocity. This course explores the tragedy of genocide through a study of literature, history, art, and film. Expect deep discussions and exposure to some of the greatest moral and ethical

dilemmas in history. Students will analyze both the common threads and unique causes of historic genocides and the impact of these crimes against humanity upon society.

*Embedded honors option

Prerequisite(s): English 9 and English 10

Modern American Lit through Sports CP

Semester course

Heroes and villains, winners and losers, underdogs and favorites, this course explores sports through a lens of literature, history, and culture. Even if you're not a fan, sports provide the perfect backdrop to look deeply into the human condition through competition, spectacle, personal struggle, and exaggerated personalities.

*Embedded honors option

**This class may be used as the English remediation for a semester of American Humanities, taken with an approved social studies elective.

Prerequisite(s): English 9

Reading & Writing Across the Curriculum

Semester course

This course will be taken freshman, sophomore, and/or junior year in conjunction with the English class. The class is designed to continually improve students' critical reading skills and effective writing practices. Students will build vocabulary knowledge, learn how to use text structure and text features to their advantage when reading, and practice achieving appropriate tone and word choice when writing. This class provides students with the opportunity to hone basic reading, writing, listening, and speaking skills that will transfer into their English classes, as well as other classes. Students will be considered for this class through I-Ready Data, student grades, teacher, school counselor, and parent conversation. As the students show proficiency (B or better) in English and social studies grades, they have a chance to exit out of the class at the end of the quarter instead of the semester. If that happens, students will then earn .25 credits. This course may be repeated. This course is by recommendation only.

Prerequisite(s): None

Senior English Capstone CP

Semester course

Is there something you wish you could learn in school that's not offered in the program of studies? The Capstone Project is a unique opportunity for you to explore a passion or interest in a self-directed, independent manner with the support of a classroom teacher and mentors who are experts in your area of study. Student-designed projects will demonstrate inquiry, real-world learning, and authentic application of knowledge and skills that reflect our core values and school-wide competencies. The possibilities are endless--start a small business, record an album, organize a community service program, develop an app or create a website, run a marathon, choreograph a dance performance, restore an old car, design and create a jewelry or clothing line; go wherever your curiosity or career interests take you. School-day instruction will guide you through a series of benchmarks along the way, which include developing a proposal, conducting research, connecting with mentors in the school and community, and organizing your time. Each student's Capstone Project experience concludes with a public presentation, which will also be supported through classroom instruction. Students enrolling in Senior English Capstone can select to pursue additional study and earn an honors level designation on their transcript. In addition to maintaining an 85 percent average in the regular course expectations, honors students will be expected to complete independent reading, upper-level writing, special projects, and summer assignments.

Prerequisite(s): English 9, English 10, and English 11

Senior English Capstone-An Educator's Experience

Semester course

This themed-specific Capstone Class is for those students who have an interest in pursuing a career in the educational field. In addition to all the requirements of Senior English Capstone, students in this course will participate in an internship with other schools in the area to support their learning and full understanding of an educator's experience.

Prerequisite(s): English 9, 10, and Humanities

True Crime and Detective Literature CP

Semester course

Not for the faint of heart! This 18-week course will explore the "true crime" genre and the art of storytelling through literature, film, and podcast, which has reignited the radio narrative. The course will explore the pop-culture phenomenon of the true crime obsession and look at the psychology of criminals as well as the forensic science used to catch them. Come and explore an eclectic curriculum from Truman Capote's *In Cold Blood* to the *Serial* podcast.

Prerequisite(s): English 9 and English 10

This course is a project-based introduction to modern media, including the critical study of television, film, social media, and advertising. Throughout the semester, students will examine the ways writers, directors, and producers communicate with their audiences through different persuasive techniques. Students will learn how to become critical viewers, and communicators through the analysis of visual concepts. Critical interpretation of visual, aural, and the written message will promote media literacy. Students will apply the concepts they have learned to produce and film their own videos, commercials, podcasts, and music videos!

Prerequisite(s): English 9

DIGITAL LITERACY

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH		GRA	ADE	
Accounting I Honors	2	Year-long		10	11	12
Accounting II Honors	2	Year-long			11	12
Coding and Gaming	.5	Semester	9	10	11	12
Cyber Security I	2	Year-long		10	11	12
Cyber Security II	2	Year-long			11	12
<u>Digital Media I</u>	2	Year-long		10	11	12
<u>Digital Media II</u>	2	Year-long			11	12
Engineering I Honors	2	Year-long		10	11	12
Engineering II Honors	2	Year-long			11	12
Introduction to Digital Media	.5	Semester	9	10	11	12
Introduction to Graphic Design	.5	Semester	9	10	11	12
Personal Financial Literacy	.5	Semester			11	12

COURSE DESCRIPTIONS

Accounting I Honors Year-long course

In this project-based class, students will be introduced to the complete accounting cycle for sole proprietorships, partnerships, and corporations. Online accounting software will be used instead of the traditional paper and pencil method. Students will use simulations and projects to apply concepts and master skills. For all who plan a career in business, finance, management, marketing, banking, accounting, or plan to run their own business, this course is a must. Students can receive 3 college credits for this course.

Prerequisite(s): None

Accounting II Honors Year-long course

Accounting II is for students who wish to pursue an accounting or business career and have completed Accounting I. Further competence in accounting skills is emphasized in this course which includes departmentalized, corporate, and cost accounting concepts. Online accounting software will be used instead of the traditional paper and pencil method. Students can receive 3 college credits for this course.

Prerequisite(s): Accounting I with a grade of C or better, or with instructor approval.

Coding and Gaming Semester course

Coding and Gaming is aimed at the novice computer user; it is designed to be a rewarding and fun learning experience for students who have no prior programming knowledge. Students will explore the fundamental introductory concepts and processes to computer programming. They will learn the building blocks for coding in a variety of ways including building their own computer games. Students will investigate multiple computer programming tools. This class will help students feel confident in their ability to write small programs that allow them to accomplish useful goals while providing them with a solid background of standard computer logic to enhance problem-solving skills.

Prerequisite(s): None

Cyber Security I Year-long course

Cyber Security 1 is intended to be a great place for those new to programming and cybersecurity. Students will learn computer program development techniques, computational thinking, troubleshooting, algorithm development, data structures, and graphics using languages current to the industry. They will learn to develop software applications from requirements, design, and secure implementation. Students will learn about computer organization, how the Internet works, and basic cybersecurity.

Prerequisite(s): Algebra I.

Cyber Security II Year-long course

Students will learn the fundamentals of cybersecurity. Students will learn foundational cybersecurity topics including networking fundamentals, software security, system administration and the basics of cryptography and programming. This is not a coding intensive course, but students will learn basic SQL and JavaScript, and will utilize basic HTML and JavaScript within specific contexts while being provided with support within those contexts. Students will modify existing code and run it in the browser, investigate cyber related topics and reflect on them and discuss them, create digital presentations, and engage in in-person collaborative exercises with classmates. Students will be able to modify text-based programs in HTML, JavaScript, SQL and simulate shell commands. Students will also participate in simulated cyber-attacks on safe sites to learn how to mitigate cyber-attacks. Students will be able to document their processes and discuss best practices for preventing cyber-attack The course is highly visual, dynamic, and interactive, making it engaging for those new to computer science.

Prerequisite(s): Cyber Security I

Digital Media I Year-long course

This year-long course introduces students to some of the basic graphic design techniques used by commercial, visual, print, web, online game, and app designers. Digital Media 1 provides in-depth instruction in Adobe Photoshop and Illustrator. Students will learn how to use the fundamentals of layout, design, typography, and composition in the digital realm. They will integrate a variety of drawing, painting, editing, and retouching tools with special emphasis on how to create/achieve sophisticated, real-world results including posters, programs, logos, and brochure designs. It will encourage students to use flexibility and imagination in their growing repertoire of computer skills, providing better productivity, and therefore, employability. Real-world critical thinking and implementation are a hallmark of this course. As such, each student will be required to create both a physical as well as an electronic portfolio of accomplishments throughout this course.

Prerequisite(s): None

Digital Media II Year-long course

By completing this year-long capstone course students are preparing to continue their passion of becoming a user/developer of media technologies, for print and digital graphic design, illustration, and audio-visual production. DM2 provides students a chance to experience the day-to-day life of being creative. Students will learn how to integrate the skills they have learned thus far in Photoshop, Illustrator, InDesign, Premier Pro, and many other cutting edge Adobe Creative Suite programs to develop layout and design spaces for both print and web as well as visually engaging audio/visual creations. Students will continue to build on their image, illustration, audio/visual editing, and text skills to achieve professional design variations for multiple forms of digital media. Students will also explore communication with outside clients to create custom works. Students will explore advanced integration of multiple media technologies utilized in advertising and marketing agencies, production houses, and media-focused departments within larger corporations. Real-world critical thinking and implementation are a hallmark of this course. As such, each student will be required to continue to add to both a physical as well as an electronic portfolio of accomplishments that they started in DM1.

Prerequisite(s): Digital Media I.

Engineering I Honors

Year-long course

This course is a combination of Introduction to Engineering and Design, and Principles of Engineering. In the first semester, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work. In the second semester students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation, through problems that engage and challenge them. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. The techniques learned and equipment used is state-of-the-art and currently being used by engineers throughout the US.

*Freshmen are eligible if they have completed the middle school PLTW courses and with department chair approval.

Engineering II Honors Year-long course

This course is a combination of Computer Integrated Manufacturing and Civil Engineering and Architecture. Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. In the second semester, students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Prerequisite(s): Engineering I

Introduction to Digital Media

Semester course

This semester course in the Digital Media realm is for students who want to explore computer technology through movies and music. Students will explore the making of movies using Adobe Premiere. Students will be exposed to the introductory issues relative to the visual development of ideas as well as how the audio affects the visual. Not only will they be exposed to script and storyboard generation, creation and editing of movie clips to create a final product, but also the creation of music using existing clips and their own musical compositions in Garage Band.

Prerequisite(s): None

Introduction to Graphic Design

Semester course

Introduction to Graphic Design introduces students to basic graphic design techniques used by commercial and visual artists while exploring the elements and principles of art. Students will learn basic Adobe Photoshop, music mixing and movie maker skills while applying the fundamentals of design, layout, composition, and typography in the digital realm. Projects may include digital collage and composite imagery, masking and photo and digital editing, using typography though creating original logos, posters and designs, as well as vector and raster image manipulation. This introductory art course satisfies the fine arts requirement for graduation. A journal may be required for assignments. This class has no advanced or repeatable option.

Prerequisite(s): Successful completion of the middle school ICT requirements

Personal Financial Literacy

Semester course

This course is taught in a computer lab where students learn finance using a variety of electronic tools and resources. An important part of the class is the Virtual Business Finance simulation, a game-like environment used for teaching key personal financial skills. Using the simulation and other tools such as spreadsheets, students will learn to create a budget, manage their cash, examine financial services, explore retirement planning, discover ways to manage credit, keep their credit scores healthy, examine housing options, and buying and owning a vehicle. This course will provide a foundational understanding for making informed personal financial decisions. **Prerequisite(s):** None

MATHEMATICS

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH	GRADE			
Algebra I B CP (1 math credit; 1 elective credit)^	2	Year-long	9	10		
Algebra I CP^	1	Year-long	9	10		
Algebra I Honors^	1	Year-long	9			
Algebra II A	1	Year-long	9	10		
Algebra II B	1	Year-long		10	11	
Algebra II Honors^	1	Year-long	9	10		
AP Calculus^	1	Year-long				12
AP Pre-Calculus^	1	Year-long			11	12
AP Statistics^	1	Year-long			11	12
Business Math CP	1	Year-long			11	12
Calculus CP^	1	Year-long				12
Essentials of Algebra 2	.5	Semester		10	11	12
Essentials of Geometry	.5	Semester		10	11	12

Geometry A^	1	Year-long		10	11	
Geometry B^	1	Year-long		10	11	
Geometry Honors^	1	Year-long		10	11	
<u>Pre-Algebra</u>	1	Year-long	9			
Pre-Algebra Skills						
Pre-Calculus A^	1	Year-long			11	12
Probability & Statistics CP^	.5	Semester			11	12
Trigonometry B CP [^]	.5	Semester			11	12

[^]NCAA Approved

	Recommended Mathematics Program Sequences						
Year	Students attending a sel	ective 4-year college (see	Students attending a 2-year college, trade school,				
college for specific requirements)			or entering the military or workforce				
Freshman	Algebra IIA CP or	Algebra I CP or Algebra I	Algebra 1B CP	Pre-Algebra			
	Algebra II Honors	Honors					
Sophomore	Geometry A CP or	Algebra II A or Algebra	Algebra II B CP	Algebra 1B CP			
	Geometry Honors	II Honors					
Junior	Pre-Calculus A CP or AP	Geometry A or Geometry	Geometry B CP	Essentials of Algebra 2			
	Pre-Calculus	Honors	-	and Essentials of			
				Geometry			
Senior	Calculus CP or AP	Pre-Calculus CP or AP	Trigonometry B CP and	Geometry B CP or			
	Calculus	Pre-Calculus	Probability and Statistics	Algebra II B CP or			
			CP	Business Math			

COURSE DESCRIPTIONS

Algebra I B CP (Double block)

Year-long course

This course is designed to cover the high school competencies for Algebra 1 in a format that allows for additional learning time and support in a smaller class setting. Students will build skills and confidence through intensive, daily instruction with the goal of continuing in the subsequent, grade-level math courses that will prepare them for post-secondary education and career training. The development of problem-solving skills are emphasized throughout this course, and calculators are used, when appropriate, to increase understanding of concepts.

*Students who complete this two-credit course earn one required math credit and one elective credit.

Prerequisite(s): Pre-Algebra (middle school or high school)

Algebra I CP Year-long course

This course is intended for students who have successfully completed Pre-Algebra and for incoming freshmen who have a good grasp of arithmetic skills and who have performed at an average/above-average level in prior math courses. Topics covered in this course include: the basic operations and their properties on the set of real numbers, solutions and graphs of linear equations and inequalities, relations and functions, systems of equations and inequalities, properties of exponents, and operations with polynomials and their factors are studied extensively. Throughout the course, algebra as a problem-solving tool is emphasized and calculators are used when appropriate.

Prerequisite(s): Pre-Algebra (middle school or high school)

Algebra I Honors

Year-long course

This course is intended for incoming freshmen who have demonstrated the ability and desire to accomplish math at an above-average level. This course will prepare students to accelerate in math in the sophomore year. Topics covered in this course include operating with the set of rational numbers, simplifying algebraic expressions, solutions of linear equations and inequalities, linear, exponential, and quadratic functions and their graphs, and systems of equations and inequalities. Emphasis is placed on determining equations of lines in a coordinate system and properties of lines in a coordinate plane. Operating with polynomials and their factors is extensively studied. Knowledge of the real number system is extended to include a study of radicals and irrationals and applied in solving quadratic equations. The importance of algebra as a tool to solve problems in the real world is stressed and the use of calculators is

used to enhance understanding of concepts. Students in the honors program are required to participate in several math contests throughout the year, which require time outside of the normal school day.

Prerequisite(s): Pre-Algebra (middle school or high school)

Algebra II A CP Year-long course

This course is intended for students who have successfully completed Algebra I CP and have demonstrated an above average ability in mathematics. The properties of the Real Number system developed in previous algebra courses will be reviewed, utilizing proof and principles of logic to develop these properties further. Emphasis will be placed on a study of functions and their related graphs and equations – linear, quadratic, exponential, logarithmic, and polynomial. Matrices, inverses, and composition of functions will also be studied. Knowledge of polynomials will be extended to include the Remainder and Factor theorems, and the use of synthetic division. The irrationals and complex numbers will be studied, along with the solution of radical equations. Conic sections, systems of equations in several unknowns, probability and statistical methods will be studied. Calculators and graphing calculators will be used when appropriate to focus on problem solving.

Prerequisite(s): Algebra I

Algebra II B CP Year-long course

This course is intended for students who want a college preparatory course, but on a less rigorous level than Algebra II A. Emphasis is placed on conceptual understanding, connections that exist in math, modeling, and problem solving. Topics studied include properties of real numbers and solving equations and inequalities and related systems. Also studied are linear, quadratic, polynomial, exponential, logarithmic functions and their graphs, rational expressions, irrational and complex numbers, series and sequences. Calculators are used when appropriate in problem solving.

Prerequisite(s): Algebra I

Algebra II Honors

Year-long course

This course deals with topics from intermediate and advanced algebra. The emphasis is on the understanding of the foundations of algebra through a study of the field properties and the study of functions. The concept of a mathematical function will be examined through a study of linear, quadratic, exponential, logarithmic and rational functions and their applications as a mathematical model for solving problems. Other topics studied include irrationals, polynomials, conics, and complex numbers. The use of a scientific or graphing calculator will be used to enhance concepts and problem solving. Students in the honors program are required to participate in several math contests throughout the year, which require time outside the normal school day.

* It is highly recommended that students on the honors/AP track own a graphing calculator, preferably the TI-84 or TI-84 Plus. Prerequisite(s): Algebra I

AP Calculus Year-long course

This course follows the College Board syllabus for AP Calculus. The course begins with analytic preparation for calculus with a review of analysis topics. The concept of limit is used to develop the derivative of algebraic functions and related applications. Methods of integration, the definite integral and applications of the integral as an accumulation function are studied. Also included is a study of differential equations. All topics rely heavily on a graphical, tabular, and analytical approach, which reflects the reform movement in calculus. Students in the honors/AP program are required to participate in several math contests throughout the year, which require time outside the normal school day.

*Students are required to take the AP exam in May.

** It is highly recommended that students on the honors/AP track own a graphing calculator, preferably the TI-84 or TI-84 Plus. Prerequisite(s): AP Pre-Calculus or Pre-Calculus A (with teacher recommendation)

AP Pre-Calculus Year-long course

This course follows the College Board Syllabus for Precalculus AP, preparing students for AP Calculus or for college calculus placement. The topics studied include polynomial and rational functions, exponential and logarithmic functions, trigonometric and polar functions. Students in the honors/AP program are required to participate in several math contests throughout the year, which require time outside the normal school day. The College

*Students are required to take the AP exam in May.

**Colleges/Universities may grant college credit for college algebra or precalculus equivalent. Students cannot get college credit for both AP Pre-Calculus and AP Calculus.

*** It is highly recommended that students on the honors/AP track own a graphing calculator, preferably the TI-84 or TI-84 Plus.

Prerequisite(s): Algebra II Honors and Geometry Honors (with teacher recommendation)

AP Statistics Year-long course

This course is intended for students who have completed Algebra II A or Algebra II Honors. It may also be taken concurrently with Pre-Calculus or AP Calculus. The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. Students in the honors/AP program are required to participate in several math contests throughout the year, which require time outside the normal school day.

*Students are required to take the AP exam in May.

** It is highly recommended that students on the honors/AP track own a graphing calculator, preferably the TI-84 or TI-84 Plus. Prerequisite(s): Algebra II A or Algebra II Honors

Business Math CP Year-long course

Business Math is a course designed for students to have the opportunity to understand mathematics in the context of business and personal finance. Students will work to improve both their math and financial literacy through the use of real-world examples and applications. This course prepares students to be smart shoppers, informed taxpayers, and valued employees. A solid understanding of math, including algebra and personal finance, provides the necessary foundation for students interested in careers in business and skilled trades areas. Critical thinking applied to Excel spreadsheet applications, as well as individual and group activities will help to solidify students' concept knowledge.

Prerequisite(s): Algebra I

Calculus CP Year-long course

This course is intended for students who have completed a study of trigonometry and analysis. The course begins with analytical preparation for calculus with a review of analysis topics. The calculus material will be covered at a slow pace to provide a good foundation for succeeding in a college calculus course. The pace will be adjusted to allow for mastery and application of the concepts covered. The concept of limit and its relationship to derivatives is thoroughly explored. Techniques and applications of differentiation are explored. Methods of integration, the definite integral and application of the integral are studied as time permits. All topics will be explored both analytically and graphically. Please note that this course does NOT follow the syllabus to prepare the student for the AP Calculus exam.

* It is highly recommended that students own a graphing calculator, preferably the TI-84 or TI-84 Plus.

Prerequisite(s): Pre-Calculus

Essentials of Algebra II Semester course

This course is intended for those students who have completed Algebra I B CP. This course will teach the basics of an Algebra II class, but at a pace and depth that is designed for students who need more support in the classroom.

Prerequisite(s): Algebra I

Essentials of Geometry Semester course

This course is intended for those students who have completed Essentials of Algebra II. This course will teach the basics of a Geometry class, but at a pace and depth that is designed for students who need more support in the classroom.

Prerequisite(s): Essentials of Algebra II

Geometry A CP Year-long course

This course is intended for those students who have successfully completed Algebra II Honors or Algebra II A (and have demonstrated an above average ability in mathematics). The course will focus on the structure of geometry and the properties of two and three- dimensional figures. Logical thinking will be developed and applied in constructing and understanding formal proofs, both direct and indirect. Basic properties of the real number system will be studied, as well as properties of geometric

figures. The properties of parallel lines are extended to the study of special quadrilaterals, such as parallelograms and trapezoids. Congruency and similarity are studied extensively and applied to the various polygons. Problems, involving right triangles, are solved using the Pythagorean Theorem, special triangles and trigonometric ratios. Other topics studied include the area and volume of figures, circles and spheres, constructions, and coordinate geometry. Geometric constructions are used to reinforce geometric concepts where applicable. Calculators are used to support problem solving.

Prerequisite(s): Algebra II A

Geometry B CP Year-long course

This course is intended for those students in Grades 10, 11 or 12 who have completed Algebra II and who wish to study Geometry on a less rigorous level than Geometry A. This course covers the basic structure of geometry, points, lines, and angles, followed by an introduction to proofs. Triangles, polygons, circles and related concepts of congruency, constructions, and similarity will be studied. Areas and volumes of two and three-dimensional figures will be studied, and transformational geometry will be introduced. Calculators will be used when appropriate.

Prerequisite(s): Algebra II B

Geometry Honors Year-long course

This course is intended for incoming freshmen who have completed Algebra I in the eighth grade at an honors level or have department head approval. The topics studied parallel those of Geometry A and topics are covered at a more vigorous pace, but more emphasis is placed on solving challenging geometric problems. Students will also engage in more independent and group project work, requiring a deeper study of some topics than normally found in middle-school geometry lessons. Students in the honors program are required to participate in several math contests throughout the year, which require time outside the normal school day. **Prerequisite(s):** Algebra II Honors

Pre-Algebra Year-long course

This course is designed for those students who intend to take Algebra I but lack the necessary skills for success in an introductory algebra course. It provides a sound course of study that builds on previously learned skills, while introducing algebraic concepts needed for success in an algebra course. Topics studied include properties of rational numbers, variables and expressions, linear equations and their graphs, geometric concepts of area and volume, and basic statistics. Problem solving and estimation skills are emphasized throughout the course and calculators are used when appropriate to increase understanding of concepts.

Prerequisite(s): None

Pre-Algebra Skills Year-long course

This course is designed for students who need additional time building the skills necessary for an introductory algebra course. This course is intended to be taken in conjunction with Pre-Algebra, or in some cases Algebra 1. This course will aid students in building fact fluency, number sense, and fundamental skills needed to be successful in their current and future math courses. Specific topics will vary depending on the students' needs. Students will be considered for this class through I-Ready Data, student grades, teacher, school counselor, and parent conversation. As the students show proficiency (B or better) in Math and Science grades, they can exit out of the class at the end of the quarter instead of the semester. If that happens, students will then earn .25 credits. This course may be repeated.

Prerequisite(s): None

Pre-Calculus A CP Year-long course

This course is intended for those students who plan a scientific or mathematical career and who can succeed at an above average level. The course will include a thorough study of trigonometric and circular functions and their inverses. Included will be a study of the graphs of these functions (Polar and Cartesian coordinates), verifying identities, and using the functions as a mathematical model of certain real-life situations. The use of trigonometry in solving triangles, both oblique and right, will also be studied and applied. Other topics considered will include rotary motion, vectors, complex numbers and solving trigonometric equations. Students should have access to a scientific calculator or a graphing calculator, which will be used extensively in the course. Polynomial, exponential, logarithmic and other elementary functions are studied so that students are ready to matriculate in more advanced courses, such as calculus. Other topics will include sequences and series.

*It is highly recommended that students own a graphing calculator, preferably the TI-84 or TI-84 Plus. Prerequisite(s): Algebra II and Geometry

Probability and Statistics CP

Semester 2 course

This course is open to students who have successfully completed Algebra II. Fundamental concepts of probability, including conditional probability, independent events, tree diagrams, multiplication principle, random variables, Bernoulli experiments and standard normal distribution will be studied. Other topics of concern will be expected value and variance of a random variable, Chebyshev's inequality, binomial distributions, methods of counting, sampling, Central limit Theorem, confidence intervals and decision-making.

Prerequisite(s): Algebra II

Trigonometry B CP Semester 1 course

This course includes a study of trigonometric and circular functions and their inverses. Emphasis will be placed on using trigonometry as a tool for solving triangles and as a mathematical model for real-life situations. Students will also study the graphs of the trigonometric functions, verifying and proving identities, and solving equations. Students should have access to a scientific or graphing calculator, which will be used extensively in the course.

*If a student has taken or is concurrently taking Pre-Calculus or Calculus, they are ineligible to take this course. Prerequisite(s): Geometry and Algebra II

PHYSICAL EDUCATION

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH	GRADE			
Lifetime Activities	.5	Semester		10	11	12
Net Sports_	.5	Semester		10	11	12
Non-Traditional Games	.5	Semester		10	11	12
Outdoor Education	.5	Semester		10	11	12
Physical Education Leaders	.5	Semester		10	11	12
Team Sports	.5	Semester		10	11	12
Total Fitness	.5	Semester		10	11	12
Unified Physical Education	.5	Semester		10	11	12
Wellness	1	Year-long	9			

COURSE DESCRIPTIONS

Lifetime Activities Semester course

Students will participate in physical activities that will promote health benefits to students and teach skills that support life-long physical fitness. Students will be involved in activities such as walking, yoga, Pilates, dance, functional fitness, snow shoeing, and goal setting. All students will gain the knowledge, skills, confidence, and enjoyment needed to achieve lifelong physical fitness. **Prerequisite(s):** Wellness

Net Sports Semester course

This class is for the student who wishes to advance their skills in the lifetime activities of net and racket sports such as tennis, badminton, pickleball, eclipse ball, and table tennis. Emphasis will be placed on skill development and competitive play. The course will include competition in singles, doubles, and round robin tournaments.

Through the participation in several sports, students will gain the knowledge necessary to become an educated participant and spectator. Engagement in these life-long activities will provide an atmosphere that is enjoyable to the participants, promotes cooperation among peers, and develops a level of fitness necessary to participate in net sports.

Prerequisite(s): Wellness

Non-Traditional Games Semester course

Students will demonstrate an understanding of the role of non-traditional sport activities in promoting active participation. Students will participate in a variety of leisure time activities that will include unique non-traditional games such as Omnikin ball, scooter games, Sabaki ball, Footy ball, Ultimate Frisbee, and invasion games. Participation in physical activities can provide an opportunity for social interactions and an opportunity to display responsible personal and social behaviors.

Prerequisite(s): Wellness

Outdoor Education Semester course

This course is designed to increase student fitness level and self-confidence while enjoying the outdoors. Students will be encouraged to stretch their comfort zone by cooperating with others in ice breaker activities to develop a working relationship with others, while conquering obstacles through problem solving and teamwork. Students will be involved in activities to developed trust within themselves and groups and develop skills in orienteering to better navigate the outdoors whether on local or remote trails.

Prerequisite(s): Wellness

Physical Education Leaders

Semester course

This elective opportunity offers students who have fulfilled their two-semester Physical Education requirements an opportunity to explore different leadership roles in a physically active setting. Permission of teacher and department head is required.

Prerequisite(s): Wellness

Team Sports Semester course

At the completion of this course, students will have a better understanding of the meaning behind team sports. Students will be able to demonstrate leadership, communication, and teamwork skills. Coaching, practice, and skill development methodologies will also be explored throughout the semester. The overall goal of this course will be to promote healthy competition and active lifestyle for students at Alvirne High School. This course will cover the following team sports: flag football, soccer, volleyball, basketball, floor hockey, softball, and handball.

Prerequisite(s): None

Total Fitness Semester course

At the completion of this course, students will have a better understanding of the meaning behind functional fitness. Students will be able to demonstrate proper technique when completing body movements as well as form and technique in a series of barbell movements. Mobility, nutrition, and current fitness methodologies will also be discussed throughout the semester. The overall goal of this course will be to promote a healthy lifestyle for students at Alvirne High School.

Prerequisite(s): Wellness

Unified Physical Education Semester course

Unified Physical Education is a one semester course that may be used to fulfill a student's second Physical Education requirement. This course will explore team and individual sports, cooperative activities, initiative and low ropes course elements, and personal fitness at a novice level. Students will exhibit responsible personal and social behaviors to respect themselves and others in a physically active setting. Students will have the opportunity to experience relationships and learn from and help support their cognitively and physically challenged peers. At the completion of this course, students will be able to demonstrate skills explored at a novice or appropriate individual level.

* Physical Education Department chair and teacher approval is required.

Prerequisite(s): Wellness

Wellness Year-Long course

This course offers an integrated, holistic approach to health and lifetime physical fitness. This approach to overall wellness encompasses the physical, mental, social, and emotional well-being of the individual. By the end of this full year course, students will be able demonstrate the ability to apply principles of physical fitness, nutrition, weight control, stress management, alcohol/drug refusal, and disease prevention, to positively modify their own personal lifestyle. The content of the course includes several areas of study: Nutrition, Substance Use and Abuse, Mental/Emotional/Social Health, Sexuality/Family Life, and Personal Fitness. Each content area will be addressed in a classroom and/or physical activity setting. Personal goal setting, communication, and decision-

making skills will be emphasized and integrated throughout the course along with a focus on accessing accurate information using technology. Students will acquire functional knowledge and skills necessary to make informed decisions regarding their health and recognize the long and short-term benefits of developing healthy habits now to maintain a high level of wellness throughout the stages of life.

Prerequisite(s): None

SCIENCE (Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH	GRADE			
AP Biology^	1	Year-long			11	12
AP Chemistry^	1	Year-long			11	12
AP Environmental Science^	1	Year-long			11	12
AP Physics I^	1	Year-long			11	12
Astrobiology CP^	.5	Semester			11	12
Biochemistry Honors^	.5	Semester			11	12
Biology CP^	1	Year-long		10		
Biology Honors [^]	1	Year-long		10		
Biology Workshop	1	Year-long		10		
Chemistry CP [^]	1	Year-long		10	11	12
Chemistry Honors^	1	Year-long		10	11	12
Earth Science CP	1	Year-long	9			
Earth Science Honors ^	1	Year-long	9			
Earth Science Workshop	1	Year-long	9			
Environmental Science CP^	1	Year-long			11	12
Human Anatomy & Physiology^	1	Year-long			11	12
Integrated Chemistry^	.5	Semester			11	12
Integrated Physics^	.5	Semester			11	12
Organic Chemistry Honors^	.5	Semester			11	12
Physics CP [^]	1	Year-long			11	12
Physics Honors^	1	Year-long			11	12

[^]NCAA Approved

	Recommended Science Program Sequences					
Year	Students attending a selective 4-year college (see	Students attending a 2-year college, trade school,				
	college for specific requirements)	or entering the military or workforce				
Freshman	Earth Science (Honors or CP)	Earth Science (CP or Workshop)				
Sophomore	Biology (Honors or CP)	Biology (CP or Workshop)				
Junior	Chemistry CP and/or Physics CP	Integrated Chemistry (.5 cr) and Integrated Physics				
		(.5 cr.)				
Senior	Chemistry (Honors or CP)	Electives (see below)				
	Physics (Honors or CP) and/or Electives (see below)					
Elective	Offered Every Year:	Electives:				
	 Anatomy & Physiology (Honors or CP) 	 Anatomy & Physiology 				
	Astrobiology (.5)	Astrobiology (.5)				
	 Environmental Science CP 	 Environmental Science CP 				
	Offered in Odd Years (26-27)	CTE Electives:				

- Organic Chemistry Honors (.5)
- Biochemistry Honors (.5)
- AP Physics
- AP Environmental Science

Offered in Even Years (25-26)

- AP Chemistry
- AP Biology

- Principles of Engineering
- Wildlife Management
- Natural Resources
- Veterinary Science
- Health and Science Technology

COURSE DESCRIPTIONS

AP Biology (offered 2025-26)

Year-long course

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes – energy and communication, genetics, information transfer, ecology, and interactions. The course focuses on four underlying principles, called Big Ideas, encompassing evolution; cellular processes and homeostasis; genetics and information transfer; and ecology and biological interactions. The course also emphasizes inquiry-based learning and the development of science practices and skills. Content and lab activities are conducted as prescribed by the College Board. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: https://apcentral.collegeboard.org/courses/ap-biology?course=ap-biology

*Students are required to take the AP exam in May.

Prerequisite(s): Successful completion of Biology and Chemistry (as set by the College Board)

APChemistry (offered 2025-26)

Year-long course

This course is the equivalent of the first year of General Chemistry offered at the college level. Advanced Placement is a course based on the content established by the College Board. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at:

http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html Serious students who will pursue majors in physical sciences, medicine, or engineering are advised to enroll in this course.

*Students are required to take the AP exam in May.

Prerequisite(s): Successful completion of Chemistry A or Honors Chemistry, and completion of Algebra II (as set by the College Board)

AP Environmental Science Year-long course

This course is the equivalent of a college level environmental science course. The AP curriculum is established by the College Board. This curriculum includes the following big ideas: (1) energy transfer, (2) interactions between earth systems, (3) interactions between different species and the environment, and (4) sustainability. Students will analyze environmental concepts and processes to propose and justify solutions to environmental problems. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: https://apcentral.collegeboard.org/courses/ap-environmental-science. Serious students who will pursue majors in environmental studies or related majors are advised to enroll in this course.

*Students are required to take the AP exam in May.

Prerequisite(s): Successful completion of earth science and biology, and completion or concurrent enrollment in chemistry (as set by the College Board)

AP Physics I (offered 2026-27)

Year-long course

AP Physics I is equivalent to a first-semester college course in algebra-based physics. The course is mostly Newtonian mechanics (including kinematics, vectors, projectile motion, forces, rotation, and momentum), and includes topics of work, energy, and power. Emphasis is on providing a university-level foundation in physics for students interested in the life sciences, pre-medicine, and applied sciences, as well as other areas of study. A comprehensive description of this course can be found on the College Board AP Central Course Description web page at: https://apcentral.collegeboard.org/courses/ap-physics-1?course=ap-physics-1-algebra-based

*Students are required to take the AP exam in May.

Prerequisite(s): Geometry and Algebra II (students must be comfortable with trigonometry)

Astrobiology CP Semester course

Astrobiology is an interactive, hands-on, inquiry-based course that will focus on the search for life in the universe. This course will explore the history and future of space exploration, including space travel to the moon and mars. This course will use concepts from earth and space science to explore how the sun, stars, and space exploration have influenced life here on earth. Students will use NASA research to explore topics on astronomy, stellar exploration, and the search for extraterrestrial life. This course is for students who are interested in earth and space science as well as for students considering majors in biology, astronomy, astrophysics, and engineering. **Prerequisite(s):** Biology

Biochemistry Honors (offered 2025-26)

Semester course

This elective course will introduce students to the biologically significant organic molecules. The structure and function of carbohydrates, proteins, lipids, vitamins, enzymes, and nucleic acids will be studied. Emphasis will be placed on emerging research in areas including, but not limited to: DNA technologies, stem cells, membranes, and ion channels through scientific reading and journal writing. The laboratory is a significant part of the course. Students will complete an independent research project as part of the inquiry competency. Students considering careers in pharmacy, medicine, other health related fields, chemistry or biochemistry will find this course beneficial. **Prerequisite(s):** Successful completion of Chemistry A or Honors Chemistry, AND successful completion of Honors Organic Chemistry, as well as successful completion of Algebra II (with teacher recommendation)

Biology CP Year-long course

Topics covered in this course include cells and the chemicals and structures that form them, the ways in which the organisms composed of these cells interact in the environment, reproduction of cells, the study of DNA, animal systems, and maintaining homeostasis at both the organism and cellular levels, changes in living things over time as well as the kingdoms of living things will also be studied. There will be a strong emphasis on inquiry, laboratory skills (including using a microscope, making accurate observations, reporting results in a well-organized fashion, and measuring), biotechnology, microbiology, and genetics. Projects and reports are an integral part of this course. Successful completion of this course fulfills the life science graduation requirement.

Prerequisite(s): Earth Science

Biology Honors Year-long course

Topics covered in this course include cells and the chemicals and structures that form them, the ways in which the organisms composed of these cells interact in the environment, reproduction of cells, the study of DNA, animal systems, and maintaining homeostasis at both the organism and cellular levels. Changes in living things over time as well as the kingdoms of living things will also be studied. There will be a strong emphasis on inquiry, laboratory skills (including using a microscope, making accurate observations, reporting results in an organized fashion, and measuring), biotechnology, microbiology, and genetics. Additional depth of study, formal laboratory writing, scientific research, independent research projects, career exploration, and summer work (to be completed before the school year begins) are required for the Honors level. Successful completion of this course fulfills the life science graduation requirement.

Prerequisite: Honors Earth Science and Honors Geometry or Geometry A (or concurrently enrolled), and have a teacher recommendation from a Freshman science teacher. Placement in Honors Biology is also conditional upon completion of summer homework assignments.

Biology Workshop Year-long course

This is an introductory biology course that is designed to teach basic biological concepts to students and to help students apply the principles of biology to their lives. Topics covered in this course include cells and the chemicals and structures that form them, the ways in which organisms composed of cells interact in the environment, reproduction of cells, and the study of DNA. Changes in living things over time as well as the kingdoms of living things will also be studied. Successful completion of this course fulfills the life science graduation requirement. Students will be recommended for this course based on I-Ready Data, student grades, and teacher recommendation.

Prerequisite(s): None

Chemistry CP Year-long course

Students will study the behavior of matter and its properties, develop an understanding of atomic structure and its relationship to physical and chemical properties, infer how molecular structure impacts the bulk properties of matter, explore chemical reactions and

the transfer of electrons, and explain the roles of energy as well as the laws of thermodynamics on changes in matter and the stability of systems. Laboratories will reinforce the principles and concepts presented in class and help to develop critical thinking and technical writing skills. Problem-solving, critical reading and comprehension, and writing will be emphasized. Successful completion of this course fulfills the chemistry or physics graduation requirement.

Prerequisite(s): Algebra I

Chemistry Honors Year-long course

Chemistry is the study of the structure, composition, and behavior of matter. Students will study a variety of topics that include characteristics and behavior of matter; energy transformations during physical and chemical changes; atomic structure and the periodic table of elements; systems and the factors which influence their behavior, and chemical reactions and their quantitative analysis. Student investigations emphasize accurate observations, collection of data, data analysis and the safe manipulation of scientific apparatus and materials. A college-level text is used. A *strong foundation* in mathematics and reading and writing skills are essential. This course is intended for students considering post-secondary study in the fields of medicine, engineering, and physical and life sciences. **Prerequisite(s):** Algebra IIA or Algebra II Honors, or concurrent enrollment

Earth Science 1 CP (Semester 1)

Semester course

This semester of Earth Science expands on the physical science concepts and the scientific skills that were learned in the 8th grade. Chemistry, physics, geology, and astronomy concepts will be explored in depth to prepare students for biology, chemistry, and future science classes. Students will collect and analyze data to solve problems using the scientific method. Laboratory work is usually performed in groups, but students will be responsible for writing individual lab reports as evidence of mastery of the concepts covered in the labs. Students will apply math and graphing skills. Reading and writing assignments are also an integral part of this class; therefore, students taking this class will develop stronger reading and writing skills. Students will be learning research skills and applying research results to course content. Students are expected to complete regular homework assignments in addition to occasional outside projects utilizing current technology. Successful completion of this course fulfills 1/2 of the physical science graduation requirement.

Prerequisite(s): None

Earth Science 2 CP (Semester 2)

Semester course

This semester Earth Science is a continuation of physical science concepts with an increased focus on Earth's systems, climatology, and sustainability. Students will collect and analyze data to solve problems using the scientific method. Laboratory work is usually performed in groups, but students will be responsible for writing individual lab reports as evidence of mastery of the concepts covered in the labs. Students will apply math and graphing skills. Reading and writing assignments are also an integral part of this class; therefore, students taking this class will develop stronger reading and writing skills. Students are expected to complete regular homework assignments, in addition to occasional outside projects utilizing current technology. Successful completion of this course fulfills 1/2 of the physical science graduation requirement.

Prerequisite(s): None

Earth Science 1 Honors (Semester 1)

Semester course

Honors Earth Science is a laboratory course emphasizing the process of scientific investigation through inquiry and the study of the physical world. Major topics of study include chemistry, physics, astronomy, geology, and scientific method. Interpretation of the periodic table, manipulation of mathematical formulas, the use of technology to collect, analyze, and report data; the utilization of science skills in systematic investigation; and problem solving and decision-making skills are all integral parts of the course. Honors Physical Science students will do outside reading, additional projects and research, more in-depth labs, and a summer assignment. Students will be learning research skills and applying research results to course content. Successful completion of this course fulfills 1/2 of the physical science graduation requirement.

Prerequisite(s): Algebra I Honors or Algebra II A or Honors, or concurrent enrollment (with teacher recommendation) Algebra I Honors or Algebra II A or Honors, or concurrent enrollment (with teacher recommendation)

Earth Science 2 Honors (Semester 2)

Semester course

Honors Earth Science is a laboratory course emphasizing the process of scientific investigation through the study of the physical world. Major topics will include the study of Earth's systems, climatology, and sustainability. Interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze, and report data; the utilization of science skills in systematic inquiry investigation; and problem solving and decision-making skills are all integral parts of the course. Honors Earth Science students will

do, outside reading, additional projects, research, and in-depth labs. Successful completion of this course fulfills 1/2 of the physical science graduation requirement.

Prerequisite(s): Algebra I Honors or Algebra II A or Honors, or concurrent enrollment (with teacher recommendation)

Earth Science 1 Workshop (Semester 1)

Semester course

This semester of Earth Science expands on the physical science concepts and the scientific inquiry skills that were learned in the 8th grade. Chemistry, physics, geology, and astronomy concepts will be explored in depth to prepare students for biology, chemistry, and future science classes. Students will collect and analyze data to solve problems using the scientific method. Laboratory work is usually performed in groups, but students will be individually responsible for writing lab reports to demonstrate mastery of the concepts covered in the labs. Students will apply math and graphing skills. Writing and reading assignments are also an integral part of this class; therefore, students taking this class will develop stronger writing skills. Students will be learning research skills and applying research results to class content. Successful completion of this course fulfills 1/2 of the physical science graduation requirement. Students will be recommended for this course based on I-Ready Data, student grades, and teacher recommendation.

Prerequisite(s): None

Earth Science 2 Workshop (Semester 2)

Semester course

This inquiry-based approach to the study of basic earth and space phenomena incorporates simplified chemistry and physical science concepts. Areas of study will include Earth's systems, climatology, and sustainability. Emphasis will be placed on mastering concrete scientific processes and concepts. Students will perform lab work in groups but will be individually responsible for demonstrating their understanding of concepts through lab report writing. Successful completion of this course fulfills 1/2 of the physical science graduation requirement.

Students will be recommended for this course based on I-Ready Data, student grades, and teacher recommendation **Prerequisite(s):** None

Environmental Science CP Year-long course

Students will analyze environmental concepts and processes to propose and justify solutions to environmental problems. This curriculum includes the following big ideas: (1) energy transfer, (2) interactions between earth systems, (3) interactions between different species and the environment, and (4) sustainability. Students who are interested in or plan to pursue majors in environmental studies or related majors are advised to enroll in this course. **Prerequisite(s):** Earth science, biology, and chemistry (or concurrent enrollment in chemistry.

Human Anatomy & Physiology

Year-long course

Human Anatomy & Physiology covers body systems with a focus on the skeletal, muscular, and nervous systems. Smaller units cover the eye, cardiovascular, and endocrine systems. Students preparing for careers in medicine, nursing, physical/occupational/speech therapy, athletic training, or other healthcare careers (at 2- or 4-year post-secondary institutions) will be well prepared upon successful completion of this course. Lectures, frequent lab activities, microscope usage, and dissection of animal specimens are required for this class.

*Embedded honors option

Prerequisite(s): Biology Honors or Biology CP

Integrated Chemistry Semester course

The purpose of this semester-long course is to provide a comprehensive introduction to the foundational concepts of chemistry. This course is designed to meet the chemistry related Next Generation Science Standards for students who are not enrolled in a traditional year-long chemistry course. This course will explore scientific skills and real-world applications of chemistry concepts as they relate to students' real-world experiences. Students will explore concepts related to periodic trends, types and rates of reactions, chemical structures, conservation of mass, and nuclear energy. Students will be recommended for this course based on I-Ready Data, student grades, and teacher recommendation.

Prerequisite(s): Earth Science and Biology

Integrated Physics Semester course

The purpose of this semester-long course is to provide a comprehensive introduction to the foundational concepts of physics. This course is designed to meet the physics related Next Generation Science Standards for students who are not enrolled in a traditional

year-long physics course. This course will explore scientific skills and real-world applications of physics concepts as they relate to students' real-world experiences. Students will explore concepts such as: forces and motion, magnetism, electricity, energy, and waves. Students will be recommended for this course based on I-Ready Data, student grades, and teacher recommendation.

Prerequisite(s): Earth Science and Biology

Organic Chemistry Honors offered 2024-25

Semester course

This elective course begins with the fundamental study of carbon-based compounds, electron cloud hybridization, molecular geometry, and bonding principles. Students will relate carbon chemistry to organic, physical, and chemical properties. Advanced topics will include nomenclature, organic synthesis and reactions, and stereochemistry. This course is suitable for those students considering majors in chemistry, health careers, and chemical or biochemical engineering.

Prerequisite(s): Chemistry A or Honors Chemistry and Algebra II (with teacher recommendation)

Physics CP Year-long course

Physics CP is an applied mathematics course and requires strong mathematics skills, with an emphasis on logical problem solving and inquiry skills. This course thoroughly explores the main topics in physics and is intended to prepare students for an introductory physics course in college. Topics include kinematics, forces, Newton's Laws, work, energy and power, momentum, mechanical waves, sound, and basic electricity.

Prerequisite(s): Algebra 1 and Geometry (or concurrent enrollment in Geometry)

Physics Honors Year-long course

Physics Honors is an applied mathematics course and requires strong mathematics skills, with an emphasis on logical problem solving and inquiry skills. This course thoroughly explores the main topics in physics and is intended to prepare students for an introductory physics course in college. Topics include kinematics, vectors, projectile motion, forces, Newton's Laws, work, energy and power, momentum, mechanical waves, sound, and basic electricity. Additional work outside of the classroom will be expected to be successful.

Prerequisite(s): Geometry and Pre-Calculus (or concurrent enrollment in Pre-Calculus)

SOCIAL STUDIES

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH	GRADE		
African & Middle Eastern Studies	.5	Semester	10	11	12
American Humanities CP^	1	Year-long		11	
AP American Humanities^	1	Year-long		11	
AP Psychology^	1	Year-long			12
AP U.S. Government and Politics	1	Year-long		11	12
AP US History I^	1	Year-long	10		
East Asian History CP^	.5	Semester	10	11	12
Economics CP^	.5	Semester		11	12
Law and Order^	.5	Semester	10	11	12
Model United Nations CP^	.5	Semester	10	11	12
Psychology CP [^]	.5	Semester		11	12
Sociology CP^	.5	Semester	10	11	12
U.S. & World Geography CP	.5	Semester	10	11	12
U.S. and N.H. Government CP [^]	.5	Semester		11	12
U.S. in the Cold War: Eve of Destruction CP^	.5	Semester	10	11	12
War and Peace: U.S. and Russia through Conflict and Culture	.5	Semester	10	11	12

World History Honors^	1	Year-long	9		
World History I CP^	.5	Semester	9		
World History I Workshop	.5	Semester	9		
World History II CP	.5	Semester	9		
World History II Workshop	.5	Semester	9		

[^]NCAA Approved

COURSE DESCRIPTIONS

African and the Middle Eastern Studies CP

Semester class

This semester course will focus on the development of Middle Eastern and Sub-Saharan African countries in the modern era (colonial and postcolonial) and on current events. Topics include the three Abrahamic religions, Israel-Palestine conflict, Islamic Revolution of 1979, causes of September 11th terrorist attacks, and aftermath of the Age of Imperialism in Sub-Saharan Africa. Students will develop a better understanding of Middle Eastern history, learning the culture, economics, religion, and geography of the region. Through lecture, film, reading, literature, and research, students will develop listening, writing, and organizational skills. This course aims to prepare students for college, understand the Middle East and Sub-Saharan Africa in the world today, and provide a non-western perspective of world history.

*Embedded honors option

Prerequisite(s): Successful completion of at least one semester of World History

American Humanities CP (Double block)

Year-long course

Students in this course will explore American culture through the study of history, literature, art, music, film, and television. This interdisciplinary program is team-taught by two teachers, one from the English department, and one from the Social Studies Department. The course meets daily and satisfies the junior English and History requirements. The course places emphasis on group cooperation and self-motivation. Students enrolling in American Humanities can select to pursue additional study and earn an honors level designation on their transcript. In addition to maintaining an 85 percent average in the regular course expectations, honors students will be expected to complete independent reading, upper-level writing, special projects, presentations, and summer assignments.

Prerequisite(s): English 9 and English 10

AP American Humanities (Double block)

Year-long course

This intensive, college-level study of American history, literature, culture, and thought prepares students to take both the Advanced Placement United States History and Advanced Placement English Language and Composition exams. Through this interdisciplinary approach co-taught by a history and English teacher, students will grow in their capacity to think, read, view, analyze, synthesize, and evaluate critically, as they engage with a wide variety of written, visual, and aural texts, with an emphasis on primary sources and their interpretation. Students will also learn how to communicate and collaborate in effective and powerful ways through daily writing, discussion, and presentation activities. This course meets daily and satisfies both the junior English and US History requirements.

*Students are required to take the AP exam(s) in May.

Prerequisite(s): AP US History I and Honors English 10 (or permission)

AP Psychology Year-long course

This is a college-level course surveying the discipline of psychology, the science of behavior and mental processes. The units of study are based on the College Board Advanced Placement curriculum. Topics include psychology's history, approaches, and research methods, biological bases of behavior, sensation and perception, states of consciousness, learning and conditioning, cognition and memory, motivation and emotion, developmental psychology, personality, intelligence and testing, social psychology, and psychological disorders. The course and AP exam (which is taken in May) are designed to measure your knowledge of psychological concepts and your ability to apply these concepts in real-world ways. Students will be asked to gather data, do data analysis, and form and test hypotheses.

*Students are required to take the AP exam in May.

AP U.S. Government and Politics

Year-long course

This course is designed for junior and senior students who have displayed exceptional ability, creativity, and task commitment. The class will follow the curriculum designed by the Advanced Placement Advisors. Key components of this course are critical thinking, research, writing assignments, and topical debates. The students are required to have the approval of the department chair in order to be eligible for this course. The purpose of the course is to give a detailed look into how our American government system functions in all its complexities. The primary objective will be to develop the knowledge of our governmental system and to promote an understanding of the democratic ideas. The major areas covered will be the political process, the presidency, the Constitution and the courts. A large part of the curriculum will utilize case studies to give the student a clearer understanding of some of the various issues that our country faces today.

*Students are required to take the AP exam in May

AP US History I* Year-long course

This is a two-year course based on the College Board Advanced Placement U.S. History curriculum. Entry to the course requires the instructor's permission and a two-year commitment on the part of the student. The course, which requires the student to demonstrate strong verbal and writing skills, also focuses on the development of critical thinking skills. Through class discussions, group presentations, and individual written work, the students will be expected to articulate various historical viewpoints, develop theses, and organize and present position papers. Extensive work in document-based questioning is required. The course follows the evolution of American History from the Pre-Columbian period to the close of the nineteenth century, with a strong emphasis on social history. The skills developed in this class will help prepare students for AP Humanities and future college coursework which require strong analytical and critical thinking skills. Students are required to take the Advanced Placement national exam at the end of the second year. Students who wish to enroll in A.P. Humanities must complete this course in grade 10.

Prerequisite(s): English 10 Honors (concurrent enrollment) and with teacher/department head recommendation

East Asian History CP Semester course

This semester course will focus on the emergence of China, Japan, and other East Asian countries in the 19th and 20th centuries. The course will study the transition of these countries from traditional, agrarian countries to industrial and economic powers in the world. Among the topics to be studied are the abolition of feudal Japan, the Sino-Japanese War, Japan as an imperial power, the collapse of the Qing Dynasty, Sun Yat-sen and the Chinese Republic, World War II, Mao Zedong and the People's Republic of China, the Cultural Revolution, the Korean War, and modern-day events. Through lecture, film, reading, and research, students develop listening, writing, and organizational skills. This course aims to prepare the student for college, show the importance of East Asia in the world today, and provide a non-western perspective of world history.

*Embedded honors option

Prerequisite(s): Successful completion of at least one semester of World History

Economics CP Semester course

This one semester course will cover the 20 National Standards and the 5 NH State Standards for Economic education. Those standards include basic economic concepts, microeconomic concepts, macroeconomic concepts, personal finance, and international economic concepts. Students will learn the art of the economic way of thinking (compare benefits with costs) and apply this skill to solving problems and making decisions. Students will compete in the Stock Market Game against other NH schools. Skills learned include budgeting and investing money, maintaining a checking account, completing tax forms, a resume, and a cover letter. Lastly, students will know pertinent facts about the economy, including the current rates of unemployment, inflation, and interest. This course will prepare students to major in Business/Economics in college, to be workforce ready, and to use their citizenship skills.

*Embedded honors option

Prerequisite(s): None

Law and Order Semester course

Students enrolled in this course will gain practical information and problem-solving skills regarding the law and our legal system. Students will engage in active learning experiences such as mock trials, moot courts, case studies, simulations, and small group exercises. Community resource people such as lawyers, judges, and police officers will be involved as guests in class. Students explore the definition of law, citizen rights and responsibilities under the law, learn methods of dispute resolution, as well as identify and analyze public issues. Exploration of legal careers will be a theme throughout the course.

Prerequisite: Successful completion of at least one semester of World History

Model United Nations CP Semester course

Model U.N. is a semester course that simulates the operation of the United Nations Security Council. Student participants assume the roles of diplomatic representatives to the UN and consider items from the UN's vast agenda. Through their role playing, students gain a greater understanding of international affairs and our world's problems as well as possible solutions to these problems. The main

focus of the course is on the development of a worldview that stresses the political, economic, and cultural interconnectedness of the world. Strong research, writing, and debating skills are recommended and class participation is a must.

*Embedded honors option

Prerequisite(s): Successful completion of at least one semester of World History

Psychology CP Semester course

This course is a college-level course which surveys the discipline of psychology, the science of behavior and mental processes. The units of study are based on the National Standards for the Teaching of Psychology and include psychology's history and research methods, biopsychology, life span development and personality, cognition and learning, and psychological disorders and treatment. The course utilizes reading, films, documentaries, discussion, data analysis, simulations, and cooperative group activities to better understand the human mind and behavior. This course can be taken for Honors credit by completing additional readings and projects under the direction of the teacher.

*Embedded honors option Prerequisite(s): None

Sociology CP Semester course

This class will survey the discipline of Sociology by studying cultural anthropology, case study research, deviance and crime, individuals in society, social inequalities, social institutions, group collective behavior, and modern global issues. Students will draw on their knowledge of the social sciences to view human behavior from many perspectives. Students will be challenged to set aside personal bias and learn about cultures of the world, different social norms, theories of human development, statuses and roles in society, and the importance of family, government, economics, religion, and sport. This course aims to prepare students for college and help students understand their role in a modern, global world.

Prerequisite(s): Successful completion of at least one semester of World History

U.S. & World Geography CP

Semester course

This course will introduce students to both the Western and non-western regions of the world. Topics such as natural resources, population growth, economic development, as well as the more general categories of physical and cultural geography, will be explored. Maps, graphs, charts, computer-based technology, film and television will be employed in this study. In our present day, more opportunities in life, government, and business rely on knowledge of other cultures and societies. Students will develop a greater appreciation and knowledge, not only of the United States, but other countries around the world. This course aims to help students to prepare for possible careers in such fields as geology, meteorology, environmental studies, forestry, construction, and travel.

Prerequisite(s): Successful completion of at least one semester of World History

U.S. and N.H. Government CP Semester course

This course offers an overview of the structure and function of the U.S. and New Hampshire Governments. Students will study the evolution of the social contract, the Constitution (how it was created, what it says, checks and balances), the importance of the Bill of Rights, Federalism and the balance between federal and state governments, and the elements of the American political process (voting, elections, the role of political parties). In addition, students will examine the 3 branches of the federal government in depth – Legislative, Executive, and Judiciary – as well as New Hampshire's variations on these. Research and the development of one's own political ideology is central to this course. Students will use a variety of sources including primary sources, newspapers, magazines, websites and computer technology, and film and other media to research, discern, and determine political truth. This course will prepare students for college and responsible citizenry, as well as careers in law, law enforcement, or government.

Prerequisite(s): None

U.S. in the Cold War: Eve of Destruction CP

Semester course

This course is a college preparatory semester elective that surveys the major events of the Cold War (1945 – 1991), with a focus on the perspective of the United States. The class will study the Containment Policy, Korean War, McCarthyism, Cuban Missile Crisis, Vietnam War, I, the counterculture / anti-war movement, and other tensions between the US and the Soviet Union. We will also

examine how the Cold War influenced the pop culture of the time, using books and films as examples. The course will be taught through readings, primary and secondary source documents, discussions, movies, and traditional lectures.

Prerequisite(s): None

War and Peace: U.S. and Russia through Conflict and Culture

Semester course

Time travel tales of wars, empires, revolutions, conflicts and cooperation between the U.S. and Russia. Explore the rich cultural heritage of two great nations from 1777 to the present. Students will grapple with how the ideals of "American Exceptionalism" and Russian /Soviet autocratic rule led to cycles of conflict, coexistence, cooperation, and conflict.

Prerequisite(s): Successful completion of at least one semester of World History

World History Honors Semester course

This course, which is recommended for the accelerated student, provides a global, in-depth approach to the study of the development of civilization from the 1500s to the present day. Topics to be studied will include: the Renaissance, the Reformation, the Age of Enlightenment, the Age of Revolution, the Industrial Revolution, European Imperialism, both World Wars, and the events which are shaping the modern world. Well-defined verbal and writing skills are expected of students who take this course. The course is structured to help the student to develop various skills: listening and reading for comprehension, organization skills, and critical thinking skills of application, analysis, synthesis, and evaluation. Students will be expected to draw information from a wide variety of sources, including but not limited to, class lecture, primary and secondary source readings, film, television, and the Internet. A strong emphasis on analytical writing is a major component of the course. This course aims to prepare the college bound student for a successful transition to Advanced Placement U.S. History as well as to provide skills and information for careers in education, the humanities, law, politics, and government.

Prerequisite(s): None

World History I CP Semester course

This course is the study of the development of World History from the 1500s to 1900. Among the topics to be studied are the Enlightenment, the Age of Absolutism and Revolution, Napoleon, the Industrial Revolution, European imperialism, and the First World War. The course will help prepare the student to master such practical skills as the interpretation of maps, charts, tables, and timelines, as well as fostering reading for comprehension and application and developing higher order thinking skills. The student will do research using computer technologies and primary and secondary sources. These skills will enhance the 9th grade students' ability to successfully continue their high school career, to pursue studies beyond the secondary level, as well as providing preparation for entry level positions in a technologically advanced world.

Prerequisite(s): None

World History I Workshop Semester course

This course is a skills-based approach to the study of World History from the 1700 – 1930's. Among the topics to be studied are the Enlightenment, the Age of Absolutism and Revolution, Napoleon, the Industrial Revolution, European imperialism, and the First World War. For students looking to pursue college athletics, this class is not approved by the NCAA.

Prerequisite(s): None

World History II CP Semester course

This course is the study of the development of World History from 1900 to present. Among the topics to be studied are European nationalism, the Second World War, Communist and the Cold War, conflicts in the Middle East, and events shaping our modern world. The course will help prepare the student to master such practical skills as the interpretation of maps, charts, tables, and timelines, as well as fostering reading for comprehension and application and developing higher order thinking skills. The student will do research using computer technologies and primary and secondary sources. These skills will enhance the 9th grade students' ability to successfully continue their high school career, to pursue studies beyond the secondary level, as well as providing preparation for entry level positions in a technologically advanced world.

Prerequisite(s): None

World History II Workshop Semester course

This course is a skills-based approach to the study of World History from 1930's – present. Among the topics to be studied are European nationalism and imperialism, the Second World War, Communism and the Cold War, conflicts in the Middle East, and events shaping our modern world.

Prerequisite(s): World History I Workshop

SECTION 3



OPEN ELECTIVES

CAREER AND TECHNICAL EDUCATION

(Use the links below to read the course description and any prerequisites)

COURSE NAME	CREDITS	LENGTH		GRA	ADE	
Air Force JROTC						
JROTC Science of Aviation	1	Year-long	9	10	11	12
JROTC Aviation History	1	Year-long		10	11	12
JROTC Global History	1	Year-long			11	12
JROTC Leadership	1	Year-long				12
Business - Accounting						
Accounting I Honors	2	Year-long		10	11	12
Accounting II Honors	2	Year-long			11	12
Business - Marketing						
Marketing I	2	Year-long		10	11	12
Marketing II Honors	2	Year-long			11	12
Electives						
Entrepreneurship						
Personal Financial Literacy						
Computer Science						
Cyber Security I	2	Year-long		10	11	12
Cyber Security II	2	Year-long			11	12
Electives						
Coding and Gaming	.5	Semester	9	10	11	12
<u>Construction</u>						
Construction I	2	Year-long		10	11	
Construction II	2	Year-long			11	12
Electives						
Woodworking	.5	Semester	9	10	11	12
Advanced Woodworking	.5	Semester		10	11	12
<u>Culinary Arts</u>	_	_				
Culinary Arts I	2	Year-long		10	11	
Culinary Arts II	2	Year-long			11	12
Electives	_					
Baking and Pastry	2	Year-long			11	12
Digital Media	_	_				
Digital Media I	2	Year-long		10	11	12
Digital Media II	2	Year-long			11	12
Electives	~	G	0	1.0	.,	10
Introduction to Digital Media Control of the Late Way of	.5	Semester	9	10	11	12
Engineering (Project Lead the Way)	_	37 1		1.0	1.	1.0
• Engineering I Honors	2	Year-long		10	11	12
Engineering II Honors The last section of the last section o	2	Year-long			11	12
Health and Human Services	2	37 1		10	11	
Health Science I Honors	2	Year-long		10	11	1.0
Health Science II Honors	2	Year-long		1.0	11	12
Human Services I Honors	2	Year-long		10	11	12
Electives	_	g .		1.0	1.	1.0
Child Development	.5	Semester	9	10	11	12
Human Relationships	1	Year-long	9	10	11	12

Heavy Duty Mechanics						
Heavy Duty Mechanics I	2 2	Year-long		10	11	
Heavy Duty Mechanics II	2	Year-long			11	12
Electives						
Small Engines	.5	Semester	9	10	11	12
Natural Resources						
Natural Resources I	2	Year-long		10	11	12
Natural Resources II	2 2	Year-long			11	12
Electives						
Retail Florist I	.5	Semester	9	10	11	
Retail Florist II	.5	Semester		10	11	12
Advanced Floral Design	.5	Semester		10	11	12
Growing Your Future	.5	Semester	9	10	11	12
• Forestry	1	Year-long	9	10	11	12
Veterinary Science						
Veterinary Science I	2 2	Year-long		10	11	
Veterinary Science II Honors	2	Year-long			11	12
Electives						
Canine Science	.5	Semester	9	10	11	12
Pet Care (Companion Animal Science)	.5	Semester	9	10	11	12
Equine Science	.5	Semester	9	10	11	12
Welding and Fabrication						
Welding & Fabrication I	2	Year-long		10	11	
Welding & Fabrication II	2 2	Year-long			11	12
Electives						
Introduction to Welding	.5	Semester	9	10	11	12

COURSE DESCRIPTIONS

AIR FORCE JROTC

JROTC Science of Aviation Year-long course

Aerospace Academics focus on the science of aviation, covering topics such as basic aerodynamics, aviation physiology, meteorology, and navigation. Additionally, topics in space studies are covered to include the solar system and the development of the U.S. Space Program. The Leadership Education is designed to improve student communication skills, and include speaking and writing assignments, study of individual and group behavior, and basic leadership concepts.

*Embedded honors option

Prerequisite(s): None

*Honors option

Remote Pilot Course - This is an introductory course in Small Unmanned Aircraft Systems (sUAS). This is an academically challenging course for top achievers in the AFJROTC program. When the course is completed, students should be prepared to take and pass a Federal Aviation Administration (FAA) knowledge test to become a certified Remote Pilot under the FAA's UAS Rule (Part 107).

JROTC Aviation History Year-long course

Aerospace Academics focus on the history of aviation. The study of aviation pioneers and strong military leadership complements the history lessons. Leadership education is designed to help freshmen adapt to the high school environment, and include time management, fitness and wellness, flag etiquette, and customs and courtesies of the Air Force.

Prerequisite(s): Successful completion of JROTC Science of Aviation with a grade of C or better; and meeting JROTC grooming and behavior standards.

JROTC Global Studies Year-long course

Global Studies is the third-year course for Junior ROTC and is more academically challenging. Concurrent enrollment with other JROTC courses is allowed, however prior approval from the Senior Aerospace Science Instructor is required for concurrent enrollment. Aerospace Academics for this course is focused on Global Studies. This is a customized course about the world's cultures. The course is specifically created for the US Army, Marine Corps, Navy, and Air Force Junior ROTC programs. It introduces students to the world's cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Leadership academics are designed to study and improve student management skills, choosing a career path, how to apply for and fund college, skills inventory and resume writing.

Prerequisite(s): Successful completion of JROTC Aviation History with a grade of C or better; and meeting JROTC grooming and behavior standards.

JROTC Leadership Year-long course

This is the fourth-year course for Junior ROTC. JROTC Global Studies is a prerequisite for this class. Cadets in this class will be held to the highest academic and behavioral standards. Cadets in JROTC Leadership will be charged with the management and leadership of the Alvirne High School cadet organization. Returning JROTC students must have an excellent academic record of performance, an exemplary record of behavior and classroom conduct, not only in JROTC but in all high school classes. The leadership Education academics are all designed to study and improve student management skills. Students from JROTC classes may be assigned to supervise JROTC classes.

Prerequisite(s): Successful completion of JROTC Global Studies with a grade of C or better; and meeting JROTC grooming and behavior standards.

JROTC Aviation Honors Year-long course

Aviation Ground School Honors – This course is the foundation for students interested in receiving a private pilot's license. This is an academically challenging course for top achievers in the AFJROTC program. When the course is completed, students should be prepared to take and pass the Federal Aviation Administration written examination per requirement of the Federal Aviation Regulations FAR 61-05 Section 61.3. This can be taken concurrently with JROTC Global Studies.

Prerequisite(s): Successful completion of JROTC Science of Aviation Honors option

BUSINESS – ACCOUNTING

Accounting I Honors Year-long course

In this project-based class, students will be introduced to the complete accounting cycle for sole proprietorships, partnerships, and corporations. Online accounting software will be used instead of the traditional paper and pencil method. Students will use simulations and projects to apply concepts and master skills. For all who plan a career in business, finance, management, marketing, banking, accounting, or plan to run their own business, this course is a must. Students can receive 3 college credits for this course.

Prerequisite(s): None

Accounting II Honors Year-long course

Accounting II is for students who wish to pursue an accounting or business career and have completed Accounting I. Further competence in accounting skills is emphasized in this course which includes departmentalized, corporate, and cost accounting concepts. Online accounting software will be used instead of the traditional paper and pencil method. Students can receive 3 college credits for this course.

Prerequisite(s): Accounting I with a grade of C or better, or with instructor approval.

BUSINESS – MARKETING

Marketing I Year-long course

Students will start this course learning the important role that marketing and business plays in society and how it impacts their daily lives. Learn about the types of business ownership, principles of entrepreneurship, management theories, strategies to

motivate employees, business ethics and corporate social responsibility. As a result of understanding the role that the economic, global, legal, and financial environments have on business operations and profits, students will then have opportunities to apply these concepts in various hands-on projects throughout the course. After learning the basics of business, students will then learn and apply the fundamentals of marketing. Students will learn all about the world of marketing, analyzing market opportunities, developing new products, distribution decisions, promotion and communication strategies, pricing objectives and the skills needed for a successful career in marketing.

Prerequisite(s): None

Marketing II Honors Year-long course

Students will further their development of marketing and business skills in this course. Students will expand their knowledge of marketing and business and continue to participate in numerous interactive business marketing projects. Students will learn not only how to develop but manage a global business plan, analyze consumer decision-making, devise B-to-B and nonprofit marketing plans, analyze supply-chain management and marketing channels, advertise, create sales promotions, price set, as well as strategize and implement social media marketing campaigns. Students will have increased opportunities to organize and lead real-world promotional campaigns and will have opportunities to partner with businesses in the community to strengthen their marketing skills.

Prerequisite(s): Marketing I.

ELECTIVES - BUSINESS

Entrepreneurship Year-long course

Entrepreneurship focuses on recognizing a business opportunity, and starting, operating, and maintaining a business. Students will turn the knowledge they gained in their CTE program into a fledgling enterprise that teaches them how take their product or service to market. They will learn and apply accounting, marketing, and business management skills throughout the class and will learn how to develop and apply a business plan. This course includes an optional internship component as part of the curriculum where students can further hone their skills in the community. By choosing this option students will engage with the Career Development Coordinator to identify and apply for an industry-specific internship.

Prerequisite(s): Successful completion of a two-year CTE program and recommendation of their program teacher

Personal Financial Literacy Semester course

This course is taught in a computer lab where students learn finance using a variety of electronic tools and resources. An important part of the class is the Virtual Business Finance simulation, a game-like environment used for teaching key personal financial skills. Using the simulation and other tools such as spreadsheets, students will learn to create a budget, manage their cash, examine financial services, explore retirement planning, discover ways to manage credit, keep their credit scores healthy, examine housing options, and buying and owning a vehicle. This course will provide a foundational understanding for making informed personal financial decisions. **Prerequisite(s):** None

COMPUTER SCIENCE

Cyber Security I Year-long course

Cyber Security 1 is intended to be a great place for those new to programming and cybersecurity. Students will learn computer program development techniques, computational thinking, troubleshooting, algorithm development, data structures, and graphics using languages current to the industry. They will learn to develop software applications from requirements, design, and secure implementation. Students will learn about computer organization, how the Internet works, and basic cybersecurity.

Prerequisite(s): Algebra I

Cyber Security II Year-long course

Students will learn the fundamentals of cybersecurity. Students will learn foundational cybersecurity topics including networking fundamentals, software security, system administration and the basics of cryptography and programming. This is not a coding intensive course, but students will learn basic SQL and JavaScript, and will utilize basic HTML and JavaScript within specific contexts while being provided with support within those contexts. Students will modify existing code and run it in the browser, investigate cyber related topics and reflect on them and discuss them, create digital presentations, and engage in in-person collaborative exercises with classmates. Students will be able to modify text-based programs in HTML, JavaScript, SQL and simulate shell commands. Students will also participate in simulated cyber-attacks on safe sites in order to learn how to mitigate cyber-attacks.

Students will be able to document their processes and discuss best practices for preventing cyber-attack The course is highly visual, dynamic, and interactive, making it engaging for those new to computer science.

Prerequisite(s): Cyber Security I

ELECTIVES - COMPUTER SCIENCE

Coding and Gaming Semester course

Coding and Gaming is aimed at the novice computer user; it is designed to be a rewarding and fun learning experience for students who have no prior programming knowledge. Students will explore the fundamental introductory concepts and processes to computer programming. They will learn the building blocks for coding in a variety of ways including building their own computer games. Students will investigate multiple computer programming tools. This class will help students feel confident in their ability to write small programs that allow them to accomplish useful goals while providing them with a solid background of standard computer logic to enhance problem-solving skills.

Prerequisite(s): None

CONSTRUCTION

Construction I Year-long course

In this course, students will practice their construction skills on small utility buildings or small houses. These future tradesmen will attend demonstrations, lectures, and will also receive hands-on experience through building construction. All phases of the housing industry will be explored. Guest speakers will help students discover what employment opportunities await them after graduation. Students should leave this course with the ability to construct sheds and other small buildings, as well as perform basic household repairs. Upon teacher recommendation and successful completion of all competency's student can move on to Construction II.

Prerequisite(s): Overall GPA of C or better

Construction II Year-long course

In this course, students will be led through the different phases of construction. Students will learn about site preparation, footings and foundations, framing, roofing, and interior and exterior finish. Students will be introduced to basic topics in concrete work, masonry, electrical wiring, and plumbing. Upon successful completion of this course, students will have the entry-level skills necessary to begin a carpentry career or progress to a postsecondary institution. Preparation: Construction I. Students will participate in OSHA 10 training and receive their OSHA 10 card upon successful completion of the program.

Prerequisite(s): Construction I

ELECTIVES - CONSTRUCTION

Woodworking Semester course

Students will learn the safe use of hand tools, small power tools, the band saw, jig saw, and lathe. Finishing techniques will also be covered, allowing students to complete independent projects. Students will be able to utilize these skills to assist them in basic home repairs. To be successful in this course, an understanding of how to perform basic math computations is essential. Woodworking is an exploratory course for grades 9 & 10. Priority will be given to freshmen and sophomores during the scheduling process. Juniors and seniors will be given consideration on a space available basis.

Prerequisite(s): None

Advanced Woodworking Semester course

Students will build on their experience from Woodworking. Students will continue to utilize their broad knowledge of hand and power tools while adding more advanced tools and fine woodworking techniques with a primary goal of furniture making. Students will also learn to design personal projects with specific advanced woodworking elements. These elements will include mortise and tenon and mitered joinery techniques. Historic preservation and furniture finishing / refinishing techniques will be learned along with furniture repurposing. The course is designed as a project-based curriculum; students must complete a variety of hands-on projects both collaboratively and individually. Each unit outlines specific skills and/or long-term projects, which serve as unit and course assessments. Students are required to communicate acquired concepts and skills via completion of wood projects, writing, verbal communication, etc.

Prerequisite(s): Woodworking

CULINARY ARTS

Culinary Arts I Year-long course

The Culinary Arts I program prepares a student for a career in the food service industry. Students train in the basics of planning, purchasing, and preparing food in quantity. Students learn cooking techniques and preparation, selection and use of utensils and equipment, and safety and sanitation techniques involved in food preparation, providing students with entry-level career skills and basic knowledge of how professional kitchens are set up and managed. Demonstrating your skill, knowledge and professionalism in the food service industry gives you a competitive edge over other chefs.

Prerequisite(s): None

Culinary Arts II Honors Year-long course

Culinary Arts II students study kitchen design and layout, food costs, inventory management and cost controls. Students will further develop their understanding of skills and theories by applying what they learned in Culinary Arts I. Instruction will include sanitation standards and procedures, baking, mother sauces, classical cuisine, and garde manger. They learn how to plan for and serve at banquets. They receive assistance during the year in making postsecondary plans and/or obtaining employment in the food service industry. This assistance will continue after graduation if needed. Students will have the opportunity to earn the nationally recognized ServSafe certification.

Prerequisite(s): Culinary Arts I with a grade of C- or better

ELECTIVES - CULINARY ARTS

Baking & Pastry
Year-long course

The Baking and Pastry class provides students with an understanding of the ingredients and methods used in creating items found in any bakery/pastry shop. Muffins, quick breads, coffee cakes, pie dough, puff pastry, Danish dough, pies, tarts, cookies, and common bakery items will also be created. Students learn how dairy, fruits, flour and chocolate come into play with pastry and baking. The fundamentals of cake baking and decorating will be covered. This class also introduces students to the equipment and costs associated with running a pastry operation. Demos and guest speakers will provide real industry experience.

Prerequisite(s): Culinary Arts I with a grade of C- or better

DIGITAL MEDIA

Digital Media I Year-long course

This year-long course introduces students to some of the basic graphic design techniques used by commercial, visual, print, web, online game, and app designers. Digital Media 1 provides in-depth instruction in Adobe Photoshop and Illustrator. Students will learn how to use the fundamentals of layout, design, typography, and composition in the digital realm. They will integrate a variety of drawing, painting, editing, and retouching tools with special emphasis on how to create/achieve sophisticated, real-world results including posters, programs, logos, and brochure designs. It will encourage students to use flexibility and imagination in their growing repertoire of computer skills, providing better productivity, and therefore, employability. Real-world critical thinking and implementation are a hallmark of this course. As such, each student will be required to create both a physical as well as an electronic portfolio of accomplishments throughout this course.

Prerequisite(s): None

Digital Media II Year-long course

By completing this year-long capstone course students are preparing to continue their passion of becoming a user/developer of media technologies, for print and digital graphic design, illustration, and audio-visual production. DM2 provides students a chance to experience the day-to-day life of being a creative. Students will learn how to integrate the skills they have learned thus far in Photoshop, Illustrator, InDesign, Premier Pro, and many other cutting edge Adobe Creative Suite programs to develop layout and design spaces for both print and web as well as visually engaging audio/visual creations. Students will continue to build on their image, illustration, audio/visual editing, and text skills to achieve professional design variations for multiple forms of digital media. Students will also explore communication with outside clients to create custom works. Students will explore advanced integration of multiple media technologies utilized in advertising and marketing agencies, production houses, and media-focused departments within larger

corporations. Real-world critical thinking and implementation are a hallmark of this course. As such, each student will be required to continue to add to both a physical as well as an electronic portfolio of accomplishments that they started in DM1.

Prerequisite(s): Digital Media I

ELECTIVES - DIGITAL MEDIA

Introduction to Digital Media

Semester course

This semester course in the Digital Media realm is for students who want to explore computer technology through movies and music. Students will explore the making of movies using Adobe Premiere. Students will be exposed to the introductory issues relative to the visual development of ideas as well as how the audio affects the visual. Not only will they be exposed to script and storyboard generation, creation and editing of movie clips to create a final product, but also the creation of music using existing clips and their own musical compositions in Garage Band.

Prerequisite(s): None

ENGINEERING

Engineering I Honors Year-long course

This course is a combination of Introduction to Engineering and Design, and Principles of Engineering. In the first semester, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work. In the second semester students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation, through problems that engage and challenge them. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. The techniques learned and equipment used is state-of-the-art and currently being used by engineers throughout the US.

*Freshmen are eligible if they have completed the middle school PLTW courses and with department chair approval. Prerequisite(s): None

Engineering II Honors

Year-long course

This course is a combination of Computer Integrated Manufacturing and Civil Engineering and Architecture. Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. In the second semester, students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Prerequisite(s): Engineering I

HEALTH AND HUMAN SERVICES

Health Science I Honors

Year-long course

This course will introduce students to the wide range of career options within Health Science. Students will be introduced to topics such as the history of healthcare, healthcare delivery systems, technology trends, healthcare economics, safety practices, infection control, and significant medical terminology. Curriculum topics and skills prepare students for careers in areas such as nursing, physical and occupational therapy, dentistry, medicine, and other careers of interest. Students may be certified in CPR/AED during this year. This course is designed for Juniors. Students' math and science grades are considered in the acceptance process.

Prerequisite(s): A grade of B- or better in college prep Biology is required. An excellent attendance record and an overall GPA of 3.00 or better will also be considered for acceptance into the program.

Health Science II Honors

Year-long course

Health Science II Honors continues to expand knowledge and experience with significant anatomy, physiology, pathophysiology, medical terminology, and real-world clinical experiences. Medical terminology continues to be embedded in the program, and students may become eligible for college credit. Level II students may take one of three experiential tracts offered, LNA, Medical Assisting or General Clinical. Licensed Nursing Assistant Program completers may earn certification, become eligible to sit for the NH State Licensing written and practical exams prior to graduating, and become employment eligible immediately following graduation. General Clinical students may intern with healthcare professionals at local community healthcare facilities as positions become

available relative to their paths of interest (not limited to physical therapy, sports medicine, exercise science, medical assisting, athletic training, dental assisting, dental hygiene, or nursing).

Prerequisite(s): Students must earn a grade of B- or better in Health Science I Honors and satisfactorily complete all competencies to continue to year two.

Human Services I Honors

Year-long course

This course will introduce the background information and concepts necessary to understand the theory and practice of Human Services. The information will be drawn from disciplines including history, sociology, and psychology, as well as understanding the valuing of social roles, ethical behaviors, and quality of life. Current influences on Human Services such as managed care may also be discussed. This pathway is geared towards students who are interested in pursuing a career as a Human Services professional.

Prerequisite(s): None

ELECTIVES - HEALTH AND HUMAN SERVICES

Care and Support Semester course

Are you interested in working with the elderly or individuals with intellectual/developmental disabilities while in high school or beyond? This course will prepare students for several different jobs available to high school students who enjoy working with others with needs. Students will learn skills essential to successful work including safety, developmentally appropriate activities, and supervision. You will learn how to apply for jobs as caretakers, assistants, and direct support professionals. Direct support professionals work one-to-one and in small groups to support individuals with intellectual or developmental disabilities and/or senior citizens. Students who successfully complete this course will be certified by Gateways as a Direct Support Professional, allowing them to apply for positions at local Gateways facilities, supporting others in need.

Careers in Health and Human Services Exploration

Semester course

In this Introductory course students will explore the Health Care System, complete a *career interest inventory* as part of developing a career plan, and research a variety of careers in Health and Human Services. Careers in each of 5 career clusters will be explored. (1) Therapeutic Services - including physical therapist, athletic trainer, and dental hygienist; (2) Diagnostic Services - including medical lab techs, pathologists, and radiology techs; (3) Health Informatics - including health care administrator, medical librarian, and

transcriptionist; (4) Support and Human Services - dietary technicians, social workers, counselors, and behavioral therapists; (5) Biotechnology Research and Development - biomedical chemist, microbiologist, and pharmacist.

Prerequisite(s): None

Prerequisite(s): None

HEAVY DUTY MECHANICS

Heavy Duty Mechanics I Year-long course

This course is designed to give students an understanding of large diesel and gasoline engines, as related to construction and agricultural equipment. Subject areas include equipment operation and maintenance, theory of engine operation, engine overhaul, hydraulics, power train, operation, welding, diagnostics, and troubleshooting. Safety will be stressed in all aspects of the course. Students will apply what they learn by gaining practical experience in the heavy equipment shop. Students can apply what they learn to help them with careers in mechanics, agriculture, construction, or trucking.

Prerequisite(s): None

Heavy Duty Mechanics II Year-long course

This course allows students to apply and expand upon skills and knowledge gained in the first year of the program. Students will work on construction and agricultural equipment performing repair, overhaul, diagnostics, and troubleshooting. Students will become independent through projects requiring record keeping, disassembly, analysis, replacement of parts, and final reassembly to a working condition. Students will troubleshoot basic diesel engine malfunctions using the latest computer technology. This course will help prepare students for an entry level job in heavy equipment maintenance or a technical school program in mechanics.

Prerequisite(s): Heavy-Duty Mechanics

ELECTIVES - MECHANICS

Small Engines Semester course

This course will introduce students to the maintenance and repair of small gasoline engines, such as those found on lawnmowers, rototillers, and snow blowers. This course will benefit the future homeowner as well as the individual seeking a career in mechanics. Major topics to be covered will include principles of operation, small engine specialty tools, engine disassembly and assembly, applications of small engine power, and the use of parts and repair manuals. Grade 9 & 10 students will be given priority when scheduling. Grades 11 & 12 will be allowed to take the course if there is room.

Prerequisite(s): None

NATURAL RESOURCES

Natural Resources I Year-long course

To conserve, manage, and protect the biodiversity of our planet is critical for human survival. The management of Earth's natural resources is essential to keeping our communities safe from need in the 21st century, ensuring we have water to drink, food to eat, air to breathe, and materials for shelter. Activities covered in this course include identification and classification of plants and animals, forest & wildlife ecology & management, invasive species, biodiversity & habitat loss, climate change, and alternative energies. Considerable class time will take place outdoors where students will be involved in hands-on learning in Alvirne's 126-acre registered NH Tree Farm. Students will be introduced to a variety of tools and technologies used in natural resource management and conservation, including remote sensing with satellites and drones, computer-based mapping with Geographic Information Systems (GIS), and handheld Global Positioning Systems (GPS).

Prerequisite(s): None

Natural Resources II Year-long course

This course is a continuation of Natural Resources I with a strong focus on sustainability. In year two, students will have the opportunity to pursue interests in Fish & Game, aquaponics, greenhouse management and alternative energy. The Alvirne Tree Farm and greenhouse will continue to serve as the main laboratory spaces for the class, however student projects could take them to locations across the region. The course will continue the use of a variety of tools and technologies used in natural resource management and conservation, including remote sensing with satellites and drones, computer-based mapping with Geographic Information Systems (GIS), and handheld Global Positioning Systems (GPS). Students will be encouraged to pursue industry recognized credentials such as OSHA 10 and Wilderness First Aid.

Prerequisite(s): Natural Resources I

ELECTIVES - NATURAL RESOURCES

Retail Florist I and II Semester 1 & 2 course

In these courses students will learn the basics of floral design. Students will learn the principles of design that will enable them to create floral arrangements including triangle, round, long and low, and holiday pieces. The basic corsage and wedding bouquet designs used in the floral industry will also be introduced. The students will be provided the opportunity to perfect design skills and gain practical knowledge to help them succeed in working in, managing, or establishing a flower shop.

Prerequisite(s): Retail Florist I is a prerequisite for Retail Florist II

Advanced Floral Design Semester course

This course is designed for students who have successfully completed Retail Florist I and II. In this course students will have the opportunity to plan, construct, and perfect their design skills. This course is designed to examine floral design in relation to contemporary designs, business practices, specialty items, creativity, and careers in the floral industry. Designs will include holiday and wedding arrangements. Students will also explore the varied management practices and approaches to running a business while operating Blooming Bronco's Flower Shop.

Prerequisite(s): Retail Florist II

Growing Your Future Semester course

This exciting new course is designed to introduce concepts of modern farming. Students will work with their hands and explore growing methods that can include hydroponics, aquaponics, or aeroponics. They will design and build the systems for growing in this

burgeoning field. You will also work with our new chicken coop and harvest fresh eggs. This class is for students who like to work with their hands and enjoy, or want to explore, growing plants and learning about raising chickens.

Prerequisite(s): None

Intro to Forestry Year-long course

This course is an introduction to the field of Forestry. Designed to encourage students to go out into the natural world and learn about the management of its natural resources through modern technology and field practices. Topics will include tree identification, resource & wildlife management, and the management & production of forest products such as lumber, firewood, and maple syrup. Introductory safe operation of equipment such as tractors, sawmill, chainsaws is included. A considerable amount of time will be spent outdoors in various weather and steel toed boots are required.

Prerequisite(s): None

VETERINARY SCIENCE

Veterinary Science I Year-long course

The first year of this advanced level, two-year program introduces students to the applied principles and practices used in small and large animal related business with a special emphasis on veterinary medicine. Students will explore concepts through hands-on experiences working with kennel animals such as chinchillas, rabbits, guinea pigs, ferrets, rodents, and birds along with our large animal species including donkeys and dairy cattle. Topics will also include safety, animal behavior, breed and species identification, animal health, welfare, and client relations. Through continuous exposure to animals on the school farm and small animal facility, students will develop hands on skills in handling, restraint, grooming, feeding, cleaning/ disinfection, training, and record keeping. Students will develop skills in professional telephone etiquette and customer service and research animal-related careers. Students will also be required to complete 12 hours of community service in an animal related service project. This course will provide students with skills and knowledge needed for employment in an entry-level job such as a veterinary assistant or kennel assistant, and/or preparation for post-secondary education.

Prerequisite(s): (1) College-prep Biology with a grade of B- or better; (2) An excellent attendance record and an overall GPA of 3.00 or better will be considered; (3) Strong Algebra I skills will be required in this program; and (4) A Lexile reading level of 1300L-1600L to be successful with interacting with the textbook.

Veterinary Science II Honors

Year-long course

In the second year of the Veterinary Science program, students will continue to build on their knowledge and skills gained in the first year. Using the kennel's small animals and large animal species, advanced topics in veterinary science II will include nutrition and anatomy, health and disease and veterinary medical terminology and entrepreneurship. Hands-on skills will be developed in feed selection, laboratory procedures (i.e., fecal analysis, blood and urine analysis), animal health and disease prevention, such as vaccinations, deworming, grooming, physical exams, office skills, equipment identification and business management. Students will also be required to complete 12 hours of community service in an animal related service project. With the completion of this program, a student's potential for success in post-secondary education /an entry level job and/or in an animal science field is greatly enhanced.

Prerequisite(s): Veterinary Science I with a B- or better and a chemistry course taken previously or concurrently is strongly recommended.

ELECTIVES - VETERINARY SCIENCE

Canine Science Semester course

This course introduces students to the wide world of dogs. Included topics are handling and restraint, history, and breeds, instinctive and learned behavior, anatomy, selection and responsible ownership, as well as an introduction to grooming. The course will be taught with many projects and demonstrations. Hands on participation in safe attire (pants and closed toe shoes) is required during class. Some students will be required to stay after class to work with instructor's animals for projects if they can't access a pet at home. **Prerequisite(s):** None

Pet Care (Companion Animal Science)

Semester course

Do you own a pet or hope to some day? Would you know what to look for in a healthy and happy pet or where the best place is to find one? Do you know how to give the best care possible to your family addition whether they are cats, guinea pigs, rodents, birds, fish,

reptiles, rabbits, chinchillas, or ferrets? Take this opportunity to learn how to choose and care for small animals and meet the animals in the Agri-pet kennel.

Prerequisite(s): None

Equine Science Semester course

Do you love horses? How about the relatives of horses? In this semester long course, students will have the opportunity to work with Alvirne's Mediterranean Miniature donkeys. Throughout the semester, students will be exploring such topics as equine evolution, history, future industry trends and equine careers. As part of the management team, students will be learning and applying their knowledge about safety, handling, training, anatomy, selection/conformation, and equine health. As we proceed throughout the class, students will practice what they learn by performing health evaluations, parasite prevention, vaccinations, and proper hoof care. Come and discover more about our beautiful, magnificent companions that so many people have come to love.

Prerequisite(s): None

WELDING AND FABRICATION

Welding & Fabrication I Year-long course

Students will learn to arc weld in the flat position, utilize an oxy-acetylene torch for cutting metal and learn basic MIG skills. Through various exercises students will select the proper welding materials and demonstrate appropriate techniques. This course is useful for any student planning a career in the fields of mechanics, engineering, agriculture, construction, machine trades, or civil technology. Grade 10 & 11 students will be given priority when scheduling.

Prerequisite(s): Overall GPA of C or better

Welding & Fabrication II Year-long course

In year two of the welding program students will delve into advanced MIG, TIG, and stick welding skills. Using torch and plasma cutters students will develop their own self-directed projects to encourage growth of welding skills and to connect program contents to real life applications. Students will use oxy-fuel, shielded metal arc, metal inert gas, gas tungsten arc, gas metal arc, and plasma metal arc equipment to develop real-world skills in a controlled environment. Students will build partnerships with business and community members to help master skills.

Prerequisite(s): Successful completion of Welding I with a grade of C or better

ELECTIVES - WELDING AND FABRICATION

Introduction to Welding Semester course

This semester course introduces students to the basics of welding using stick welding and cutting torches. Students will work on developing skills through a series of projects that can prepare them to advance into the welding program.

Prerequisite(s): None

FAMILY AND CONSUMER SCIENCE

(see course description for prerequisite information)

COURSE NAME	CREDITS	LENGTH	GRADE			
Food Works I	.5	Semester	9	10	11	12
Food Works II	.5	Semester		10	11	12
Unified Independent Living	.5	Semester	9	10	11	12

COURSE DESCRIPTIONS

Food Works I Semester course

This course is an introduction to the basic skills on food preparation and the understanding of nutritional needs and disease prevention. Food safety and sanitation are a critical component to this course. Additionally, consumer awareness and environmental issues are

emphasized. Student assessment includes lab work and a variety of hands-on activities as well as homework and exams. Students concerned with their own food choices, as well as those interested in health and fitness careers are encouraged to take this course. **Prerequisite(s):** None

Food Works II Semester course

This course is intended for the students who choose to continue the study of food preparation and want to increase their basic skills. Food safety and sanitation are a critical component to this course. This course of study allows students to explore more complex and detailed areas. Students interested in consumer choices concerning health, finance, time, effort, and the environment are encouraged to take this course.

Prerequisite(s): Food Works I

Unified Independent Living

Semester course

This course will provide the student with a variety of skills necessary for living as an independent young adult. Career choices, values, money management, and decision-making will be explored. Students will have the opportunity to experience relationships, learn from and help support their intellectually challenged peers. Students will also participate in hands-on activities designed to give them food selection and preparation skills, basic sewing experience, and consumer awareness. At the completion of this course, students will be able to demonstrate skills explored at a novice or appropriate individual level. This course is best designed for upperclassmen students and requires teacher permission. The course may be repeated.

Prerequisite(s): None

WORLD LANGUAGE

(see course description for prerequisite information)

COURSE NAME	CREDITS	LENGTH	GRADE			
American Sign Language I CP^	1	Year-long	9	10	11	12
American Sign Language II CP^	1	Year-long		10	11	12
American Sign Language III CP^	1	Year-long			11	12
French I CP^	1	Year-long	9	10	11	12
French II CP^	1	Year-long		10	11	12
French II Honors^	1	Year-long		10	11	12
French III CP^	1	Year-long			11	12
French III Honors^	1	Year-long			11	12
French IV Honors^	1	Year-long			11	12
French V Honors^	1	Year-long			11	12
Russian Language and Culture I CP^	1	Year-long	9	10	11	12
Russian Language and Culture II CP^	1	Year-long		10	11	12
Spanish Culture through Film CP^	1	Year-long	9	10	11	12
Spanish I CP [^]	1	Year-long	9	10	11	12
Spanish II CP^	1	Year-long	9	10	11	12
Spanish II Honors^	1	Year-long	9	10	11	12
Spanish III CP^	1	Year-long		10	11	12
Spanish III Honors^	1	Year-long		10	11	12
Spanish IV Honors^	1	Year-long			11	12
Spanish V Honors^	1	Year-long			11	12
World Culture through Film CP	.5	Semester	9	10	11	12

[^]NCAA Approved

COURSE DESCRIPTIONS

American Sign Language I CP

Year-long course

This year-long course is an introduction to American Sign Language and deaf culture. Students will develop a beginner's range of communication skills, as well as examine the educational, social, political, and artistic experience of deaf people. The course will cover vocabulary development, fingerspelling, and an introduction to the syntax and grammar of ASL through demonstrations, dialogues, film, guest speakers, and other media. Reading, writing, and research are also required as a foundation for students to debate and discuss the central issues within the deaf community. A signing environment is maintained in the classroom, which means only the target language is used.

Prerequisite(s): None

American Sign Language II CP

Year-long course

This year-long course is a continuation of American Sign Language I. Using a language immersion approach, students will continue to develop an intermediate range of communication skills, as well as examine the educational, social, political, and artistic experience of Deaf people. The course will cover continued comprehension of previous lessons in ASL I, but it will also expand on fingerspelling practice, various number types, special verb agreement, and negation signs. There will be a greater focus on storytelling and narrative structure as well as cultural insight of the deaf community. Content is presented through demonstrations, dialogues, film, guest speakers, and other media. Reading, writing, and research are also required as a foundation for students to debate and discuss the central issues within the deaf community.

Prerequisite(s): ASL I or teacher permission.

American Sign Language III CP

Year-long course

This year-long course is a continuation of American Sign Language II. Students will continue to develop an intermediate range of communication skills, as well as examine the educational, social, political, and artistic experience of Deaf people. The course will build on comprehension skills from ASL II and expand on ASL Literature (ABC Stories, Number stories, narratives, poetry), classifier use, job opportunities in the Deaf community, and advocacy. Learning activities will include demonstrations, dialogues, film, guest speakers, and other media.

Prerequisite(s): ASL II

French I CP Year-long course

French I is an introduction to the French language, its pronunciation, inflection and tempo. Students gradually master basic conversational sentences, such as greetings, weather, numbers, etc., through active participation. Listening comprehension of native speakers is a major part of each lesson, in addition to the understanding of basic French grammar, culture and geography. French I is geared to the student who has had no previous or limited study of French. Classes are conducted in French.

*Embedded Honors Option

French II CP Year-long course

Having been introduced to basic French conversational expressions, students now combine these with their own ideas to communicate with greater ease, and with an expanded vocabulary. Students increase accuracy in all skills with added fluency. French 2 embeds the study of Francophone and American lifestyles and their cultural differences. Classes are conducted in French.

Prerequisite(s): C- or better in French I or the permission of the department chair.

French II Honors Year-long course

Having been introduced to basic French conversational expressions, students now combine these with their own ideas to communicate with greater ease, and with an expanded vocabulary. Students increase accuracy in all skills with added fluency. French 2 embeds the study of Francophone and American lifestyles and their cultural differences. Classes are conducted in French. French II Honors maintains the rigor and pacing of the French I Honors course. It continues to gear the students to the demands of the AP French test. Classes are taught in French.

Prerequisite(s): C- or better in French I or the permission of the department chair.

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French III CP Year-long course

Students continue to develop proficiency in speaking, writing, reading, and listening. All classroom interactions are exclusively in the target language. The study of France, Canada and French Speaking Africa serves as the base for presentations and communication on a variety of current topics.

Prerequisite(s): C in French II or permission of the department chair

French III Honors Year-long course

Students who have successfully completed French I honors and French II honors continue to develop sophistication and acquisition of advanced listening, reading, speaking and writing skills. French is exclusively spoken, and students are expected to work independently and encouraged to seek opportunities to speak the target language outside the classroom setting.

Prerequisite(s): C or higher in French II Honors or permission of the department chair

French IV Honors Year-long course

French IV continues the advanced development of French and expands the students' immersion in the language with reading selections, vocabulary exercises, oral proficiency, and cultural lessons. English is eliminated from the communication process. A major component of evaluation is the students' use of French throughout each class session.

Prerequisite(s): C in French III or permission of the department chair.

French V Honors Year-long course

French V delves into areas of French literature, French art, French culture, and everyday life. Activities are mainly conversational in nature as a result of daily reading assignments. Writing skills are enhanced. Outside readings and/or written assignments are a student responsibility. English is eliminated from the lessons. A major component of evaluation is student's use of French throughout each class session.

Prerequisite(s): C in French IV or the permission of the department chair.

Russian Language and Culture I CP

Year-long course

Students in this enriching and exciting course will expand their global knowledge and understanding through an exploration of Russian language and culture—and they will see that Russian is fun to learn and is not difficult! They will gain insight into the real lives of Russians and the people of the former Soviet Union. Upon completion of this course, students will be able to converse using limited vocabulary and grammatical constructions on the topics which have been presented in class and be able to read and write simple passages containing familiar vocabulary and structures. Students will also acquire cultural awareness about Russian, including some geography and history, customs, literature, music, and traditions.

Prerequisite(s): None

Russian Language and Culture II CP

Year-long course

This course is a continuation of Russian Language and Culture I. Further development of grammar, reading, conversation and listening comprehension skills, based on authentic material from Russian culture and civilization with the emphasis on communicative competence. A literature in translation and Russian film component will enhance knowledge of the living language and provide further insight into the modern Russian culture.

Prerequisite(s): Russian Language and Culture I or teacher's permission

Spanish Culture Through Film CP

Year-long course

Students will explore historical and cultural elements of Spanish speaking countries through study of film with an emphasis on building their communication skills through critical viewing and class discussions. Students will also compare and contrast different cultural elements such as art, music, food, religion, and dance. This course is taught in Spanish and offered to students who have completed Spanish IV Honors OR are heritage/native speakers. This course is designed to be taken as a yearlong class. However, you can choose to sign up for a semester only. If you choose to take it as a yearlong class, please sign up for part A and B.

Spanish I CP Year-long course

Spanish I is an introduction to the Spanish language, its pronunciation, inflection, and tempo. Students gradually master basic conversational sentences, such as greetings, weather, numbers, etc., through active participation. Listening comprehension of native speakers is a major part of each lesson, in addition to understanding of basic Spanish grammar, culture and geography. Spanish I is geared to the student who has had no previous or limited study of Spanish. Classes are conducted in Spanish. There is an honors option available for this course.

*Embedded honors option Prerequisite(s): None

Spanish II CP Year-long course

Having been introduced to basic Spanish conversational expressions, students now combine these with their own ideas to communicate with greater ease, and with an expanded vocabulary. Students increase accuracy in all skills with added fluency. Spanish 2 embeds the study of Hispanic and American lifestyles and their cultural differences. Classes are conducted in Spanish. **Prerequisite(s):** C- or better in Spanish I or the permission of the department chair

Spanish II Honors Year-long course

Having been introduced to basic Spanish conversational expressions, students now combine these with their own ideas to communicate with greater ease, and with an expanded vocabulary. Students increase accuracy in all skills with added fluency. Spanish 2 embeds the study of Hispanic and American lifestyles and their cultural differences. Classes are conducted in Spanish. Spanish II Honors maintains the rigor and pacing of the Spanish I Honors course. It continues to gear the students to the demands of the AP Spanish test. Classes are taught in Spanish.

Prerequisite(s): C- or better in Spanish I honors or the permission of the department chair.

Spanish III CP Year-long course

Spanish III students study advanced grammar and develop a sophistication of their listening comprehension of the native speaker. The study of the history of Spain, Mexico, and South American countries enable the students to read and study independently and to communicate ideas in class entirely in Spanish.

Prerequisite: C in Spanish II class or the permission of the department chair.

Spanish III Honors Year-long course

Students having shown competence in their previous Spanish honors courses continue their comprehensive study of the Language and culture. The students develop sophistication of their listening comprehension on the native speaker while building vocabulary and acquiring more fluency in oral and written self-expression. Teacher/student communication is entirely in Spanish.

Prerequisite: C in Spanish II Honors or permission of the department chair.

Spanish IV Honors Year-long course

Spanish IV delves into areas of Spanish literature, Spanish art, Spanish culture, and everyday life. Activities are mainly conversational in nature as a result of daily reading assignments. Writing skills are enhanced. Outside readings and/or written assignments are a student responsibility. English is eliminated from the lessons. A major component of evaluation is student's use of Spanish throughout each class session.

Prerequisite(s): C in Spanish III or the permission of the department chair.

Spanish V Honors Year-long course

Embedded in Spanish IV with independent projects and advanced studies. **Prerequisite(s):** C in Spanish IV or the permission of the department chair.

World Culture through Film CP

Semester course

This course offers students the opportunity to experience foreign cultures through the power of film. Students will study important films from around the world and learn basic terminology necessary to discuss and analyze cinematography. Students will develop a familiarity with films made in diverse national contexts and examine cinema as an art form that represents and influences social, political, and cultural movements worldwide. Students will watch films from Europe, Africa, Latin America, Russia, China, as well as the postcolonial French and English-speaking world. To support the film study, the class will include weekly readings and short writing assignments. Each film will raise questions for extensive class discussions. This class is taught in English and is offered to all students.

SECTION 4



Academic Supports

English Learners (EL)

ESOL services are only available to students who meet legally predetermined criteria to qualify for ESOL direct services. ESOL services are delivered through multi-level ESOL classes levels 1 and ESOL 2 scheduled by semester. These two classes provide English Learners (EL's) with the opportunity to learn social and academic English and socio-cultural skills necessary to succeed in mainstream classes at Alvirne High School. ESOL services also include support of students in the mainstream classrooms as push-in services. Both ESOL classes and push-in services count towards meeting the recommended hours of services for students based on their level of proficiency. EL students remain in the program until they meet the exit criteria measured by WIDA ACCESS 2.0. ESOL students can earn up to one ESOL elective credit per year. EL students newly enrolled in a US school as juniors or seniors may be able to count up to 1 credit towards an English requirement. Dean of Academics approval is required.

Special Services Program

The Special Services Department at Alvirne High School is designed to provide support and/or services to students who meet the criteria for a Special Education eligibility within the 13 categories defined by Individuals with Disabilities Act (IDEA), determined through assessment or evaluation. Students meeting the criteria are assigned to an elective, credit bearing class to receive specially designed instruction, in the special education setting. In addition to specialized instruction, accommodations and/or modifications will be afforded to students with an educational identification. These accommodations/modifications afford students an opportunity to access the general curriculum.

The clear intent of the programming is to ensure that all students are able to access the general curriculum, are challenged to excel, receive opportunities to prepare for independence in adult life, are able meet progress within the mainstream curriculum, and progress toward graduation requirements. This independence includes post-secondary education, employment, the armed forces, and/or volunteering. Each of the programs offered by the Special Services Department encompasses one or more of the components listed below:

- 1. Support services to enhance students' individual performance,
- 2. Development and refinement of social, interpersonal, and behavioral skills needed to function effectively in the school setting, social milieu, and society,
- 3. Tools to promote and strengthen self-advocacy strategies,
- 4. Transitional plans to facilitate a smooth progression from school to post-graduate opportunities.

The Special Services team uses three (3) integrated steps to ensure that the unique needs of the students are addressed. In addition, the team is bound by law to ensure full compliance with district, state, and federal requirements:

- 1. Eligibility Determination Begins with the referral process, which includes outlining interventions, that have been attempted/implemented with fidelity, to assist the student, if the criterion is met, and ends with a thorough evaluation of the student in all areas of a suspected disability.
- 2. Development of the Individual Education Program (IEP) If the team, including but not limited to the student and parents, general educators, evaluator(s) and special educators, finds the student eligible for special education, the elements of an IEP are discussed, planned and established in the written document. The evaluation and eligibility process occurs triennially.
- 3. Placement Decisions Once the IEP is developed, placement in the least restrictive environment is determined by the team.

Library Media Center

The Alvirne High School Library Media Center collection (print, media and technology) reflects and supports the needs of Alvirne's curriculum and learning community. Our students and staff use the media center to access materials for research, borrowing print and other media, computer workstations, and to read for pleasure. The goal of the Library Media Center staff is to create a welcoming atmosphere and to make our students life-long learners in the 21st century. Our hours are Monday, Tuesday, Thursday, and Friday from 7:15 to 3:30 p.m. On Wednesday the Library closes at 2:10.

Academic Support Center

The Academic Support Center located in Room 307 is a dedicated space where students can receive additional support with math, reading, and/or writing. This is a great opportunity for students to receive one-on-one or small group tutoring with dedicated staff. Homework help, test preparation, and skill-building are a few of the services provided in the Academic Support Center.

SECTION 5



Additional Learning Opportunities

Independent Study

Independent study is intended to provide an opportunity for students to go beyond the classroom experience to pursue or develop an interest. We recognize the value of self-discovery and self-teaching, and we wish to encourage the responsibility and growth which is involved in this process.

Qualifications

- 1. Student must be a junior or senior.
- 2. Student shall be involved in only one independent study per semester.

Procedure

- 1. Student develops a topic or project in the form of an essay explaining the purpose of the proposed course and the new skills and knowledge that are desired. The student should consider not only why they are interested in the topic, but also discuss how it will apply to their future academic and vocational plans.
- 2. Student finds a teacher-advisor who has knowledge in the area in which he/she wishes to study and who is willing to act as a supervisor. The teacher should help the student develop their proposal by naming key material to be studied and the essential assignments to be assessed.
- 3. It will be the individual teacher's responsibility to determine if he/she has the time and interest to act as advisor to a particular student and to determine if the student has a viable plan and is sufficiently motivated. If a particular teacher is requested as an advisor by more students than he/she can assume, seniors will have priority.
- 4. The plan must have the approval of the student's counselor, department head, the teacher-advisor, and the Dean of Academics, who are the independent study coordinators, at least one month prior to the beginning of the semester.

Setting up a schedule

1. Minimum of one hour per week consultation or supervision between advisor and student shall be established at the beginning of the independent study. There will be at least two check points or progress report dates during each quarter of the semester in which the independent study is done. By these times certain goals or progress, as developed by the student and his advisor, shall be accomplished.

Miscellaneous

- 1. An independent study will have the same point value as any other academic course (0.5 credits).
- 2. Independent study is not intended as a substitute for regular class work.

On-Line Learning Opportunities

Alvirne High School has established a procedure for students to follow to receive permission to participate in an on-line learning opportunity. An on-line learning opportunity, for the purposes of this procedure, will be defined as an on-line course. Alvirne High School recognizes that at times there may be certain scheduling restrictions which create a need to look outside the building to meet the academic and scheduling needs of students. Alvirne High School has chosen the Virtual Learning Academy Charter School (VLACS) as our on-line course option due to its alignment with the State of NH Frameworks. Some examples of these restrictions may be, but are not limited to the following:

- 1. A course is unable to be scheduled at Alvirne because it conflicts with another course.
- 2. A student wishes to take a course not offered at Alvirne.
- 3. A student wishes to take a prerequisite course to enroll in the next sequential course during the academic year.
- 4. A student needs a course for Credit Recovery
- 5. A student is unable to attend school because of documented medical reasons.

All courses attempted will be added to the student's schedule and posted on the transcript, similar to courses taken at Alvirne High School.

Dual Enrollment

Alvirne High School has entered into dual enrollment agreements with the Community College System of NH and Southern New Hampshire University. Each postsecondary institution has minimum enrollment requirements. In the event the minimum enrollment is not met; college credit will not be available, and payment will be returned.

Community College System of NH

Early College at Your High School is a partnership with the New Hampshire Community College system, which allows students to take courses at Alvirne High School and receive both high school and college credit for the same course. Students may apply to this program through their teacher. It will be the student's responsibility upon completion of the course(s) to request a transcript from the college.

These courses will be offered during the regular school day at AHS. The faculty members who teach the Early College at Your High School courses come from within Alvirne High School. Upon successful completion of an Early College at Your High School course, students receive a college transcript from the Community College System of New Hampshire. College credit can be used to continue at any NH Community College or may be transferred to other colleges. Students may take up to two classes per academic year at no charge during the 2025-2026 school year. Tuition for additional courses is \$150 per course payable to either Manchester Community College or Nashua Community College. This cost allows students to receive college credit for an earned grade of "C" or higher.

Early College at Your High School Courses Offered

Alvirne Courses	Manchester Community College
Health Science I Honors	Medical Terminology (3)

Alvirne Courses	Nashua Community College
Accounting I	Financial Accounting I (4)
Culinary Arts II Honors	Food Service Systems: Sanitation (3)
Culinary Arts II Honors	Fundamentals of Baking (3)
Health Science 2	Medical Terminology (3)
Marketing II Honors	Principles of Marketing (3)

Alvirne Courses	Great Bay Community College
Veterinary Science II Honors	Intro. To Vet Tech. (2)

Alvirne Courses	NHTI
Engineering I Honors	Engineering Design (4)
Engineering I Honors	Engineering Principles (4)
Engineering II Honors	Computer Integrated Manufacturing (4)

Early College At Your High School (Formerly Running Start) - Community College System of New Hampshire

Southern NH University

Alvirne High School has partnered with SNHU, allowing juniors or seniors to take courses at Alvirne High School and receive both high school and college credit for the same course. The courses will be taught by Alvirne faculty during the regular school day. The 2023-2024 cost to students was \$100.00 to \$125.00 payable to SNHU which covers the administrative cost to post the credit.

Dual Enrollment Courses Offered

Alvirne Courses	SNHU Courses – Credit
Accounting II Honors	ACC 201 Fundamentals of Financial Accounting (3)
French 3 CP/French 3 Honors	LFR 112 Beginning French 2 (3)
French 4 Honors and French 5 Honors	LFR 211 Intermediate French I (3)
Spanish 4 Honors and Spanish 5 Honors	LSP 112 Beginning Spanish II (3)

Articulation Agreements

Articulation agreements between secondary and postsecondary schools provide a pathway for students that may lead to a credential, a certificate, or a degree. In some agreements, students can earn college credits at the partnered school by meeting individual postsecondary requirements. Students must successfully complete the full two-year program to be eligible for articulated credit. Specific requirements are listed in each articulation agreement.

Program	College	Agreement
Air Force JROTC III	Southern NH University	2 Credits Foundations of Management
Air Force JROTC IV	Southern NH University	3 Credits Principles of Management
Welding 2	Manchester Community College	Fundamentals of Welding
Veterinary Science	SUNY Cobleskill	3 Credits for Intro to Animal Science
Any CTE Program	Keene State College	Up to 8 Credits

Career Focus Internship Program – 70 Hours

The Alvirne High School internship program is designed to provide seniors with a work experience in their specific career focus area. The structure involves a strong business partnership that links the program and its participants to current resources, information, and guidance from industry professionals. Internships may be paid, credit-bearing experiences, but students should expect an internship that is unpaid. The Career Focus Internship (CFI) provides students with the opportunity to explore career interests by actively participating in a professional work environment. This competency-based program will allow students the opportunity to observe how decision making, problem solving, technology, communication and teamwork skills are utilized in a professional environment in a specific industry. Seniors will be supervised by the Career Development Coordinator and an assigned Workplace Mentor. A commitment to completing workplace hours, weekly class internship meetings, weekly attendance forms, journal entries and a Capstone presentation are required. A Pre-Internship Application and Mentor/Mentee Application are also required prior to starting with any Internship sponsor. Internship hours (Minimum 70 hours) may need to be completed outside the regular school day. Students may be required to interview with a potential Internship sponsor before being placed in the program.

Guidelines:

Students must...

- meet with the instructor to be enrolled.
- have successfully passed one (1) course related to the student's industry of interest.
- have passed all classes in the prior or current semester, have a minimum GPA of 2.5 (or permission of the instructor).
- student must complete an internship application.
- must have an approved internship site prior to the start of any internship.

Students will...

- receive a pass/fail for the course (seniors only).
- will receive a half credit (.5) for successful completion of 1 semester. Internships can be extended for another half credit (.5) with permission of the instructor.
- provide the internship coordinator journals, weekly attendance, mentor evaluation, and the Capstone presentation as scheduled.

In order to be considered for a Career Focus Internship...

- additions and withdrawals will only be allowed during the first fifteen days of the semester. •
- students are required to have an excellent attendance and discipline record, the ability to work independently, reliable transportation and parent/guardian support and approval.

CFI Application can be found here: https://forms.gle/GjhPdVD1mmv9mcCHA.