

A.H.S.

Program of Studies

Journey Toward Excellence

2013-2014

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Attleboro High School does not discriminate on the basis of age, color, disability, national origin, race, religion, sex, or sexual orientation.



Attleboro Public Schools

Journey Toward Excellence

March 2013

Dear AHS Families:

You are about to embark upon an important period of the academic year -- the course selection and registration process. This *Program of Studies* is designed to provide you with course descriptions and academic information necessary to complete your course registration for the 2013-2014 academic year.

Attleboro High School challenges and encourages its students to acquire the skills and knowledge necessary to continue on to be college and career ready, to prepare to become responsible members of the global community, and to participate in school activities and community service -- all the while growing in personal responsibility. The curriculum has been carefully designed to inspire, challenge, direct, and encourage within the context of a supportive community. The academic program consists of **core courses** required by all and a variety of **electives** from which students may request, based upon their individual talents, interests, and goals.

This year Attleboro High School will continue with the process of online course selection using the **student portal** of *Aspen*. Lost passwords can be re-set through the House Office. Last year, this change resulted in a much more efficient and accurate course selection process. The course selection portal of *Aspen* will open on March 15.

Please be sure to review the procedures carefully and allow time for the completion of the online process. Many steps take place behind the scenes and cannot occur until other steps are complete. In order to be ready for the 2013-2014 school year, it is important that all deadlines are strictly observed. It is also important to be mindful that these are **requests**. Every effort will be made to honor your requests; however, scheduling nearly 2000 students and teachers is always subject to budgetary constraints and staffing considerations.

During the next week, it is the responsibility of each student to read the *Program of Studies* carefully and seek the advice of teachers, administrators, parents, and guidance counselors. This will ensure that all students can make appropriate and realistic course requests in *Aspen*; however, students also have an opportunity to ask questions of their Guidance Counselor in person or in writing in a space provided below their requests. Unless a student has completed his requests within the given time frame, Guidance Counselors can submit course requests for them. If your family needs assistance, and the "on line window" can't be met, please be sure to express this to Guidance. *The portal closes on March 28.*

To further assist parents and students with course selections, we will be hosting an AP Potential meeting on Wednesday, March 20, from 6:00 in our mini-auditorium. Many parents received information from the College Board outlining possible options for students going into the 11th and 12th grade. If you received a letter, or are just interested in hearing more about AP Potential, please join us.

In the strongest sense of **Blue Pride**, I remain,
Bill Runey
Principal
bruney@attleboroschools.com

Attleboro High School Graduation Requirements

| | Class of 2014 | Class of 2015 | Class of 2016 | Class of 2017 |
|------------------------------------|------------------|------------------|------------------|------------------|
| English credits | 20 | 20 | 20 | 20 |
| Math credits | 20 | 20 | 20 | 20 |
| Science credits | 20 | 20 | 20 | 20 |
| Social Studies credits | 20 | 20 | 20 | 20 |
| PE/Health credits | 10 | 10 | 10 | 10 |
| Visual/ Performing Arts credits | 5 | 5 | 5 | 5 |
| Foreign Language credits | | | 10 | 10 |
| Minimum Credits | 135 | 132.5 | 130 | 130 |

- 4 years of English (English I, II, III, and IV)
- 4 years of Math, including Algebra I, Geometry, and Algebra II
- 4 years of Science, including Physics, Biology, and Chemistry
- 4 years of History, including United States History for all juniors
- 2 years of Foreign Language (Starts with Class of 2016)
- 10 credits of PE/Health (2.5 credits each year)
- 5 credits of Art

(Possible exemptions exist for CTE students in Foreign Language, Art, Science, or History.)

Visual or Performing Arts includes Visual Arts; Performing Arts; Multimedia; Creative Writing; Culinary Arts; Journalism; Media Analysis; Design and Visual Communication; Graphic Communication; Career and Technical electives; TV Production.

PROMOTION CRITERIA, September, 2013

| | |
|---------------------------------------------------|------------------------------------------------|
| Class of 2014 (135 total credits needed) | |
| To be promoted to Grade 12 | A student must have earned 97.5 credits |
| Class of 2015 (132.5 total credits needed) | |
| To be promoted to Grade 11 | A student must have earned 57.5 credits |
| Class of 2016 (130 total credits needed) | |
| To be promoted to Grade 10 | A student must have earned 22.5 credits |

HONORS PROGRAM

FOUR-YEAR REQUIREMENTS

The Honors Program at AHS improves academic achievement and marketability to top tier colleges for our most motivated students. Participation in the Honors Program will be noted on the school transcript, and a program description will be included in the school profile that is sent to colleges. Successful completion of the program earns the Honors Diploma.

Honors Course Requirements and AP Selections

Each student is required to take the honors courses listed below along with four AP selections of their choosing.

- English I H, English II H
 - AP English Selections: AP Language and AP Literature
- Geometry H, Algebra II H, Pre-Calculus H
 - AP Mathematics Selections: AP Calculus, AP Statistics and AP Computer Science
- Conceptual Physics H, Biology H*, Chemistry H
 - AP Science Selections: AP Environmental Science, AP Chemistry, AP Biology and AP Physics
 - *Biology H can be replaced with AP Environmental Science in 10th grade
- World History II H, US History I H*
 - AP History Selections: AP World History, AP US History, AP European History and AP Psychology
 - *US History IH can be replaced with AP World History in 10th grade
- Levels IIH, III H and IV H of Foreign Language
- Four AP selections from 10th through 12th Grade
- All Other Applicable AHS Requirements

Grade Requirements

- Students must maintain a weighted GPA of 90.
- Students must receive a final grade of 80 or better in each course with the exception of one allowable grade between 70 and 79 each year.

Score Requirements

- Students must achieve a minimum grade of 3 on the AP tests for courses taken in their sophomore and/or junior year.
- Students must achieve a minimum score of 650 on the Mathematics and 650 on the Verbal sections of the SAT Reasoning Test.
- Students must achieve a minimum score of 600 on three SAT Subject Tests, to be balanced between Math/Science and English/History/Foreign Language.

Extracurricular Requirements

- Students must complete 40 certified hours of community service.
- Students must participate in at least two after-school activities each year.
- Students must commit to one activity for at least three years.

Competency Determination

In Massachusetts, students must meet not only their local requirements (as listed on page 2 of this Program of Studies), but also the state's requirement of a Competency Determination, which demonstrates that a student has mastered the academic standards in a given subject area:

In accordance with M.G.L. c.69, § 1D (i), satisfaction of the requirements of the Competency Determination shall be a condition for high school graduation. A school committee shall award the high school diploma only to a student who has satisfied the Competency Determination requirement and who has met local graduation requirements.

Starting with the class of 2003, all students receiving a diploma needed to meet or exceed a scaled score of 220 (Needs Improvement) or better on both the Math and English grade 10 MCAS tests in order to satisfy the requirements of the Competency Determination.

Starting with the class of 2010, this requirement was expanded (1) and extended (2):

- (1) All students must EITHER
 - a. meet or exceed a scaled score of 240 (Proficient) or better on BOTH the Math and English grade 10 MCAS tests
 - OR
 - b. meet or exceed the scaled score of 220 (Needs Improvement) on the English and Math grade 10 MCAS tests and fulfill the requirements of an Educational Proficiency Plan
- (2) All students must meet or exceed a scaled score of 220 (Needs Improvement) or better on one of the Science and Technology/Engineering MCAS tests.

Starting with the class of 2012, there will be an additional requirement:

- (1) All students must meet or exceed the scaled score of 220 (Needs Improvement) on the History and Social Science high school MCAS test.

Educational Proficiency Plan

Students needing an EPP for a Competency Determination in either English or Math must develop the plan with their guidance counselor. All EPPs require students to take coursework in the required subject(s) in BOTH the junior and senior years. Students can place out of the EPP requirement by earning a passing score on a special EPP MCAS test, which can be administered by the school when appropriate. The state requires that EPPs *for each required content area* shall include, *at a minimum*:

- (a) A review of a student's strengths and weaknesses in the content area.
- (b) The courses the student will be required to take and *successfully complete* in grades 11 and 12 that will move the student toward proficiency on the grade 10 curriculum framework standards as well as on the grade 11 and 12 standards.
- (c) A description of the assessments the school will administer on at least an annual basis to determine whether the student is making progress toward proficiency, or has become proficient on the grade 10 standards.

Dual Enrollment

A nation-wide initiative to promote college-readiness, dual enrollment is an arrangement under which a high school student takes college courses for college credit while still in high school. The courses count toward high school graduation requirements and the credits transfer with the student to college.

Benefits of Dual Enrollment¹:

- challenges students with college-level coursework
- eases the transition to college
- decreases the cost and time required to earn a degree
- inspires college aspirations
- improves college outcomes

Attleboro High School supports dual enrollment opportunities for its juniors and seniors. Students must meet eligibility requirements, follow the dual enrollment procedure, and obtain approval for all classes by the content coordinator and an administrator.

General Eligibility Requirements²:

- promoted out of tenth grade
- at least sixteen years old
- met MCAS requirements in the given subject

AHS differentiates between two different kinds of Dual Enrollment arrangements:

Level I: The course is either

- (A) being taken above and beyond the requirements for graduation or
- (B) is being taken outside the school day in addition to a full schedule.

Level II: The course is needed to meet a graduation requirement.

AHS Dual Enrollment Procedure:

Student meets with guidance counselor to express interest.

1. Guidance counselor determines whether the request requires Level I or II approval.
2. Guidance counselor creates a plan and reviews it with student and parents.
3. Guidance counselor helps to complete the dual enrollment registration form.
4. Student and parent sign and submit the dual enrollment agreement.
5. Student registers for class(es) with the college and completes it (them) successfully.
6. Student releases the grades to AHS to receive AHS credit.

Approval for Classes:

- Level I requests need only the approval of the guidance counselor and an administrator.
- Level II requests need to be approved by a team consisting of the guidance counselor, relevant content coordinator, an administrator, and any other appropriate school personnel.

Attleboro High School, in partnership with Bristol Community College (BCC), offers students a wide range of convenient and affordable dual enrollment opportunities. Please see your guidance counselor or <http://www.bristol.mass.edu/> for more information.

State colleges, including BCC, sometimes receive grants specifically for dual enrollment and are consequently able to offer courses at a deeply discounted rate. These grants often carry a GPA requirement. Be sure to ask about financial support when investigating dual enrollment options.

¹ according to the Massachusetts Department of Elementary and Secondary Education

² Specific colleges may have additional requirements.

Scheduling Timeline

In March, students and their parents will be making course selections for next year. These requests will be checked by guidance counselors as they meet with students, and the results will be sent home to parents for review in May, with an opportunity to make adjustments. From these finalized requests, the schedule for next year will be built and students will be scheduled into available courses. The resulting schedule will be sent home to parents in June. Parents must review, sign, and return this schedule by the end of the school year. Failure to do so removes an essential safeguard to ensuring an appropriate schedule for your student.

All schedules for the next school year will be finalized by June 30. Students will not be allowed to make changes to their selections after that time. This includes changes to second and third trimesters. Beginning July 1, schedules will only be changed for educationally compelling reasons, and such changes will require approval from the guidance counselor, content coordinator, and the principal.

After June 30...

| Possible reasons for a schedule change: | Schedules will <u>not</u> be changed for the following: |
|-----------------------------------------|---------------------------------------------------------|
| inappropriate level | convenience |
| unmet prerequisite | to be with a friend |
| scheduling error | conflict with a teacher |
| health and safety | no longer interested in course |

Weighted Grades

Attleboro High School weights certain courses to determine class rank. The resulting students' grade point averages (GPA) are consequently referred to as *weighted GPAs*, which are used only for this purpose. The weighted grades that are applied to calculate weighted GPAs are neither used for determining honor roll status nor shown on official transcripts. All courses designated as honors level (H) will add five (5.0) points to the final grade to compute the weighted GPA. All courses designated as Advanced Placement (AP) will continue to receive ten (10.0) points.

ART, MUSIC AND MEDIA

| Art, Music, Media Offerings (Students must take and pass 5 credits in visual or performing arts.) | | | | | |
|----------------------------------------------------------------------------------------------------------|------------------------------------------|----------|--------------------|------------|---------|
| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
| 051545 | Art I | 9-12 | | 1 | 2.5 |
| 051546 | Studio Art IIA | 10-12 | | 1 | 2.5 |
| 051547 | Studio Art IIB | 10-12 | Studio Art IIA | 1 | 2.5 |
| 051560 | Drawing | 9-12 | | 1 | 2.5 |
| 051570 | Painting | 10-12 | | 1 | 2.5 |
| 051580 | 3-Dimensional Sculpture | 10-12 | | 1 | 2.5 |
| 051590 | Freshman Pottery | 9 | | 1 | 2.5 |
| 051595 | Pottery I | 10-12 | | 1 | 2.5 |
| 051596 | Pottery II | 10-12 | Pottery I | 1 | 2.5 |
| 051598 | Ceramics/Sculpture I | 10-12 | | 1 | 2.5 |
| 051599 | Ceramics/Sculpture II | 11-12 | Ceramics/Sculp. I | 1 | 2.5 |
| 051600 | Ceramics/Sculpture III | 11-12 | Ceramics I | 1 | 2.5 |
| 051610 | Printmaking | 10-12 | | 1 | 2.5 |
| 051660 | Jewelry/Metalsmithing I | 10-12 | | 1 | 2.5 |
| 051661 | Jewelry/Metalsmithing IIA | 10-12 | Jewelry/Metal I | 1 | 2.5 |
| 051662 | Jewelry/Metalsmithing IIB | 10-12 | Jewelry/Metal IIA | 1 | 2.5 |
| 051668 | Jewelry/Metalsmithing IIIA | 11-12 | Jewelry/Metal IIB | 1 | 2.5 |
| 051669 | Jewelry/Metalsmithing IIIB | 11-12 | Jewelry/Metal IIIA | 1 | 2.5 |
| 051707 | Junior Portfolio Art | 11 | | 1 | 2.5 |
| 051708 | Senior Portfolio Art | 12 | Junior Portfolio | 1 | 2.5 |
| 051020 | Band | 9-12 | | 3 | 7.5 |
| 051080 | Piano Keyboard | 9-12 | | 1 | 2.5 |
| 051090 | Beginning Guitar | 9-12 | | 1 | 2.5 |
| 051091 | Intermediate Guitar | 10-12 | Beginning Guitar | 1 | 2.5 |
| 051100 | World Drumming | 9-12 | | 1 | 2.5 |
| 051110 | Mixed Chorus | 9-12 | | 3 | 7.5 |
| 051115 | Women's Choir | 9-12 | | 2 | 5.0 |
| 051116 | Men's Choir | 9-12 | | 1 | 5.0 |
| 051145 | Music Theory | 9-12 | | 1 | 2.5 |
| 051146 | Advanced Music Theory | 10-12 | Music Theory | 1 | 2.5 |
| 051175 | 20 th Century Music (40s-60s) | 10-12 | | 1 | 2.5 |
| 051176 | 20 th Century Music (70s-90s) | 10-12 | | 1 | 2.5 |
| 051680 | Intro. to TV Production | 10-12 | | 1 | 2.5 |
| 051690 | Introduction to Multimedia A | 10-12 | | 1 | 2.5 |
| 051691 | Introduction to Multimedia B | 10-12 | | 1 | 2.5 |
| 102031 | Multimedia A | 10-12 | | 1 | 2.5 |
| 102032 | Multimedia B | 11-12 | | 1 | 2.5 |
| 102038 | Advanced Multimedia | 11-12 | | 1 | 2.5 |

ART OFFERINGS

051545 Art I

2.5 credits

This course is an introduction to the basic elements and principles of art in the areas of drawing, painting and printmaking. The focus is on observation and developing basic techniques. A number of basic 2D design projects will be offered to provide students with a solid foundation in arranging space and using color in works of art. Students will leave with a grasp on the methods and vocabulary necessary to create and critique art.

051546 Studio Art IIA

2.5 credits

This course is designed to build upon skills acquired in Intro to Art. Further exploration of methods, materials, and concepts from Art I will be briefly revisited and explored upon more in depth to further understanding. This class will explore the possibilities and potentials of two-dimensional media such as drawing, painting, and printmaking. In addition to group critiquing, student work will be displayed in an exhibit, leading to the appreciation and awareness of others' artwork. Active sketchbook entries and weekly homework assignments are to be maintained and completed to further individual creativity and knowledge.

051547 Studio Art IIB

2.5 credits

This course is designed to build upon skills acquired in Intro to Art. Further exploration of methods, materials, and concepts from Art I will be briefly revisited and explored upon more in depth to further understanding. This class will explore the possibilities and potentials of two-dimensional media such as drawing, painting, and printmaking. In addition to group critiquing, student work will be displayed in an exhibit, leading to the appreciation and awareness of others' artwork. Active sketchbook entries and weekly homework assignments are to be maintained and completed to further individual creativity and knowledge.

051560 Drawing

2.5 credits

This drawing course offers students an opportunity to explore and expand skills through the use of media such as pencil, pastel, pen & ink, and charcoal. Students will learn different techniques and develop skills to successfully express a personal vision within their work. Assignments will include working from direct observation, to portraiture, to conceptual problem solving. This class also provides an additional opportunity for those students planning on a career in the visual arts so they may refine present skills in the subject area.

051570 Painting

2.5 credits

In this painting course students will be introduced to a variety of wet media, such as tempera, acrylic, and watercolor. Assignments will focus on the importance of color usage and color theory. There will be an art history component in which artists of the past and present are introduced along with their contributions to painting, the visual arts, and society. This class also provides an additional opportunity for those students planning on a career in the visual arts so they may refine present skills in the subject area.

051580 3-Dimensional Sculpture

2.5 credits

In this course students will explore different types of materials to create 3D sculpture. Emphasis will be on creating and examining geometric, abstract, and organic forms. Students are expected to analyze sculpture through reading, discussion, and critique.

051590 Freshman Pottery 2.5 credits

This course is devoted to making ware on the potter's wheel. Students will learn wheel techniques that they will use to make functional pottery. Emphasis will be placed on craftsmanship and design solutions that meet intended use and meaning. Students will be expected to participate in critiques concerning their work and the work of classmates.

051595 Pottery I 2.5 credits

This course is devoted to making ware on the potter's wheel. Students will learn wheel techniques that they will use to make functional pottery. Emphasis will be placed on craftsmanship and design solutions that meet intended use and meaning. Students will be expected to participate in critiques concerning their work and the work of classmates.

051596 Pottery II 2.5 credits

Students will build on pottery wheels skills acquired in Pottery I (or Freshman Pottery) to produce more ambitious functional ware and also projects that focus on non-functional sculptural ware.

051598 Ceramics/Sculpture I 2.5 credits

Students learn several fabrication techniques for producing hand-built ceramic ware and sculptures that express their aesthetic. Student work will be developed by independent and cooperative problem solving by employing principles of design.

051599 Ceramics/Sculpture II 2.5 credits

Projects are assigned to express flexible problem solving by students. Class time is devoted to developing student work that employs skills previously acquired with an emphasis placed on aesthetics. Students learn to critique their work and the work of their classmates.

051600 Ceramics III 2.5 credits

Students who have successfully passed Ceramics II will develop an independent direction for their work. Studio class time will be devoted to critique and project fabrication.

051610 Printmaking 2.5 credits

In this course students will be introduced to a variety of printmaking techniques such as monoprint, relief, and lithograph. Students will learn to create multiples of original art using drawing, painting, and collage techniques. Students will explore color mixing, brushwork, ghost images, stencils, and unique tools to make unique prints.

051660 Jewelry and Metalsmithing I 2.5 credits

This is a trimester course that introduces students to traditional metalsmithing & jewelry making. Students will create jewelry and functional objects that will reflect their understanding of demonstrated metalworking techniques combined with their solutions to 3-D design challenges. The basic metalsmithing techniques that will be covered include embellishment, sawing, soldering, and polishing. An emphasis will be placed on the concepts of design and craftsmanship.

051661 Jewelry and Metalsmithing IIA 2.5 credits

This course will allow students to expand their design and craftsmanship abilities beyond the prerequisite introductory course. Students will create jewelry and functional objects that will reflect their understanding of demonstrated metalworking techniques combined with their solutions to 3-D

design challenges. The basic techniques that will be covered include embellishment, sawing, soldering, and polishing. An emphasis will be placed on the concepts of design and craftsmanship.

051662 Jewelry and Metalsmithing IIB 2.5 credits

This course will allow students to expand their design and craftsmanship abilities beyond the prerequisite introductory course. Students will create jewelry and functional objects that will reflect their understanding of demonstrated metalworking techniques combined with their solutions to 3-D design challenges. The basic techniques that will be covered include embellishment, sawing, soldering, and polishing. An emphasis will be placed on the concepts of design and craftsmanship. This class completes the curriculum begun in the "A" component of this course.

051668 Jewelry and Metalsmithing IIIA 2.5 credits

This course teaches students traditional metalsmithing & jewelry making. This course will allow students to expand their design and craftsmanship abilities to an advanced level. Students will have the opportunity to work with some independence while advancing their three-dimensional skills of design and craftsmanship.

051669 Jewelry and Metalsmithing IIB 2.5 credits

This course is a continuation of Jewelry/Metalsmithing IIIA.

051707 Junior Portfolio Art 2.5 credits

This course is designed for highly motivated juniors who are considering furthering their studies of the visual arts in the future. This studio intensive class will cover concepts understood from previous art classes while pushing the boundaries of traditional means of art. An exploration into an art career will be required; students will gather, create, and present relevant information of this career to help better understand and appreciate the roles of artists in today's society. Juniors will focus on creating strong pieces of work utilizing two and three-dimensional media for the addition to a portfolio of works. Students are expected to work outside of class, keep a sketchbook, and complete weekly homework assignments

051708 Senior Portfolio Art 2.5 credits

Senior Portfolio Art is focused intensively in developing the student as an individual artist. Students will create a full portfolio of artwork that is directed towards the submission of a portfolio for art school as well as acquire knowledge of the professional art world. Seniors will develop a thesis which will guide their work in a particular area of interest. This thesis will be active throughout the trimester and a final presentation of the body of work, resources gathered, and artist's commentary of the experience will be required. Students are expected to work outside of class, keep a sketchbook, and complete weekly homework assignments.

Music Offerings

051020 Band 7.5 credits

The Band is a performing organization designed to give students musical training through the rehearsal and performance of good representative band literature. Students are required to practice every day, and private lessons are encouraged. Special rehearsals are held after school and occasionally in the evening. Participation in special rehearsals and all performances (football games, concerts and parades)

is required. A band camp is held during the summer to prepare for fall activities. Space permitting, students are able to take both Band and Mixed Chorus.

051080 Piano Keyboard 2.5 credits

Students will learn fundamentals of music theory, note reading, ear training, basic harmony, composition and analysis. No prior knowledge of the keyboard is needed. Students may extend their progress by taking the course more than once.

051090 Beginning Guitar 2.5 credits

This course is designed as an introductory course in guitar for the beginning student. The class will be introduced to the fundamentals of sight-reading, basic chord structure, rhythm techniques, progressions and chord charts. The students will be required to perform classical, popular and rock selections, both individually and within ensemble and combo structure. Considerable practice outside of class time is required. Guitars will be provided.

051091 Intermediate Guitar 2.5 credits

This class is a continuation of Beginning Guitar. Students will learn more advanced techniques including, but not limited to: barre chords, power chords and advanced strum patterns. Beginning Guitar or teacher approval is required to enroll in this course.

051100 World Drumming 2.5 credits

World Drumming is a hand drumming course that explores rhythmic motives derived from different cultures rich in percussive music. The concept of poly-rhythms and rhythm stacking through African, Latin, Caribbean, and Asian music will all be examined and practiced through the use of music reading as well as by note memorization. Students will perform on various hand drum instruments of varying style and ethnic backgrounds. Rhythmic content will progress from the easy to medium level. Topics will include music reading skills, technique, and general musicality. Students will perform as a group and individually during class time. No musical background is required for this course.

051110 Mixed Chorus 7.5 credits

Mixed Chorus (SATB) is for students in all grades. This course teaches skills necessary for the performance of representative choral literature. Students must be able to match pitch. Chorus is a performing organization. Participation in special rehearsals and at all concerts is required. Space permitting, students are able to take both Band and Mixed Chorus.

051115 Women's Choir 5 credits

Women's Choir is a performing organization designed to give students musical training through the rehearsal and performance of good representative choral literature. Students are expected to practice outside of class. Special rehearsals are occasionally held after school and in the evening. Participation at all special rehearsals and performances is required. Students must be able to match pitch.

051116 Men's Choir 5 credits

Men's Choir is a performing organization designed to give students musical training through the rehearsal and performance of good representative choral literature. Students are expected to practice outside of class. Special rehearsals are occasionally held after school and in the evening. Participation at all special rehearsals and performances is required. Students must be able to match pitch.

All students in this class will receive special attention in the areas of vocal production, ear training, and the art of expressive singing. A varied program of songs would make this class enjoyable while laying a

strong foundation for advanced vocal experiences. The ultimate goal of this course is to increase student achievement in the area of music education.

051145 Music Theory 2.5 credits

This course teaches the techniques of music reading and notation. Topics include scales, melody, rhythm, harmony, ear training, listening, analysis, composition and music history. Keyboard skills will be emphasized and instruction includes use of synthesizer, computers and MIDI equipment. This course is strongly recommended for those students who plan to continue their education in music at the college level.

051146 Advanced Music Theory 2.5 credits

This course continues the study of music theory and composition. Students will focus on the arrangement and composition of music. Students will also be expected to analyze music and determine harmonic chord structures. Much of the work will be independent, with a large-scale arranging project for an instrumental ensemble. This course is highly recommended for students planning to pursue the study of music at the college level. Students may extend their progress by taking the course more than once.

051175 20th Century Music (1940s-1960s) 2.5 credits

This course is an overview of music and musical styles of the twentieth century, with a concentration on studying the roots of popular music from the 1940s – 1960's, including implications on American society. In addition, students will study the history of jazz, and American musical theater and world music. Assignments will include listening, discussion, projects and class presentations.

051176 20th Century Music (1970s-1990s) 2.5 credits

This course is an overview of music and musical styles of the twentieth century, with a concentration on studying the roots of popular music from the 1970's – 1990's, including implications on American society. In addition, students will study the history of jazz, and American musical theater and world music. Assignments will include listening, discussion, projects and class presentations.

TV/Media Offerings

051680 Introduction to Television and Film Production 2.5 credits

This course provides hands-on opportunities for students to develop beginner-level skills in camera operation, editing, storyboarding and directing student actors in a video/film production. Students will work in production teams learning the basic skills of creating and producing a final music video production project. This course fulfills half of the 5.0 credit Art Requirement.

051690 Introduction to Multimedia A 2.5 credits

Students will learn how to use a variety of computer software programs to create multimedia projects incorporating text, graphics, 3 Dimensional models, animation and sound. They will explore various methods and techniques to create original artwork on the computer and learn how to organize all of these elements to create multimedia presentations that communicate ideas and information. These presentations will be in the form of animation or stills. This course fulfills half of the 5.0 credit Art Requirement.

051691 Introduction to Multimedia B 2.5 credits

This course is a continuation of the work started in Introduction to Multimedia A.

102031 Multimedia A 2.5 credits

Students will expand upon the knowledge that they obtained during Intro to Multimedia. They will continue to explore various methods and techniques to create original artwork on the computer and organize all of the elements to create multimedia presentations that communicate ideas and information. Students will be expected to improve their problem-solving skills. All students will create a portfolio with higher levels of expectations than the basic Introduction to Multimedia class.

102032 Multimedia B 2.5 credits

Students will expand upon the knowledge that they obtained during Intro to Multimedia. They will continue to explore various methods and techniques to create original artwork on the computer and organize all of the elements to create multimedia presentations that communicate ideas and information. Students will be expected to improve their problem-solving skills. All students will create a portfolio with higher levels of expectations than the basic Intro to Multimedia class.

102038 Advanced Multimedia 2.5 credits

This advanced course is designed for highly motivated students who are interested in the serious study of multimedia as an art form. The student will be expected to produce high quality portfolio style work, which will lend itself for continuing education in the field.

CAREER AND TECHNICAL EDUCATION

| Career Technology Offerings | | | | | |
|--------------------------------------------------------------------|----------------------------|----------|------------------|------------|---------|
| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
| C9901000 | Technical Exploratory | 9 | | 2 | 5 |
| C4706046 | Automotive Technology I | 10 | | 2 | 5 |
| C4706047 | Automotive Technology II | 11 | Auto I | 2 | 10 |
| C4706048 | Automotive Technology III | 12 | Auto II | 3 | 7.5 |
| C4602016 | Carpentry I | 10 | | 2 | 5 |
| C4602017 | Carpentry II | 11 | Carpentry I | 4 | 10 |
| C4602018 | Carpentry III | 12 | Carpentry II | 3 | 7.5 |
| C1104010 | Computer Inform. Systems | 10 | | 2 | 5 |
| C1205006 | Culinary Arts I | 10 | | 3 | 7.5 |
| C1205007 | Culinary Arts II | 11 | Culinary Arts I | 5 | 12.5 |
| C1205008 | Culinary Arts III | 12 | Culinary Arts II | 5 | 15 |
| C5004016 | Design & Visual Comm. I | 10 | | 2 | 5 |
| C5004017 | Design & Visual Comm. II | 11 | Design/Visual I | 3 | 7.5 |
| C5004018 | Design & Visual Comm. III | 12 | Design/Visual II | 4 | 10 |
| C1312106 | Early Education & Care I | 10 | | 2 | 5 |
| C1312107 | Early Education & Care II | 11 | Early Ed. I | 3 | 7.5 |
| C1312108 | Early Education & Care III | 12 | Early Ed. II | 4 | 10 |
| C4603026 | Electrical Technology I | 10 | | 2 | 5 |
| C4603027 | Electrical Technology II | 11 | Electrical I | 3 | 7.5 |
| C4603028 | Electrical Technology III | 12 | Electrical II | 4 | 10 |
| C1500006 | Engineering I | 10 | | 2 | 5 |
| C1500007 | Engineering II | 11 | Engineering I | 3 | 7.5 |
| C1500008 | Engineering III | 12 | Engineering II | 4 | 10 |
| C1003017 | Graphic Communications I | 10 | | 2 | 5 |
| C1003018 | Graphic Communications II | 11 | Graphic C. I | 3 | 7.5 |
| C1003019 | Graphic Communications III | 12 | Graphic C. II | 4 | 10 |
| C5108016 | Medical Assisting I | 10 | | 2 | 5 |
| C5108017 | Medical Assisting II | 11 | Med. Assist. I | 3 | 7.5 |
| C5108018 | Medical Assisting III | 12 | Med. Assist. II | 4 | 10 |
| C4605030 | Plumbing Technology I | 10 | | 2 | 5 |
| C4805996 | Welding & Joining Tech I | 10 | | 2 | 5 |
| C4805997 | Welding & Joining Tech II | 11 | Welding I | 3 | 7.5 |
| C4805998 | Welding & Joining Tech III | 12 | Welding II | 4 | 10 |
| Applied CTE Elective Offerings for Students in Grades 10-12 | | | | | |
| C4706045 | Auto Elective | 10-12 | | 1 | 2.5 |
| C4602020 | Basic Woodworking | 10-12 | | 1 | 2.5 |
| C1513016 | Drafting/Design I | 10 | | 1 | 2.5 |
| C1513017 | Drafting Design IIA | 11-12 | Draft/Design I | 1 | 2.5 |
| C1513018 | Technical Drawing IIB | 11-12 | Draft/Design I | 1 | 2.5 |
| C1513019 | Drafting/Design III | 12 | Draft/Design II | 1 | 7.5 |

CAREER & TECHNICAL EDUCATION OFFERINGS

C9901000/C9901002 Technical Exploratory (A and B) 5 credits

This course provides an opportunity for all freshman students to explore the various Career and Technical Programs. Students will spend approximately ten days in CTE programs being introduced to the three year program of study. Students will explore the programs within two clusters. The exploratory experience allows students to participate in hands-on activities representative of each technical area with the clusters. In addition, students will investigate post-secondary and career opportunities in each career area. The activities are designed to serve a variety of interests. Completion of Technical Exploratory is not a prerequisite for acceptance into a Career and Technical program of study, although many participants do opt to enroll as a result of their experience. The career clusters are:

- Technical Cluster: Engineering Technology, Carpentry, Electrical Technology and Metal Fabrication and Joining Technology, Computer Information Systems
- Service Cluster: Culinary Arts, Early Education and Care, and Medical Assisting and Automotive Technology, Plumbing
- Communications Cluster: Design and Visual Communications, Graphic Communications, Employability and Entrepreneurship

CTE Programs

C4706046 Automotive Technology I 5 credits

Students learn the basics of safety, tool and fastener identification and use; use of laboratory equipment such as lifts, jacks, tire changing and balancing equipment. Also covered, is basic service work, such as oil change, lubrication, and under-hood checks. In addition, the students are given instruction in diagnosis and repair of braking problems, and use of related shop equipment. Students of Automotive Technology apply communication and entrepreneurial skills through direct interaction with service customers.

Students of the Automotive Technology program are required to purchase, wear, and maintain career appropriate coveralls, protective footwear, and safety glasses for the laboratory experiences.

Financial assistance is available to those who qualify.

C4706047 Automotive Technology II 10 credits

In their second year, students who have successfully completed level I, will continue to receive instruction in brakes and suspension and steering. They will receive instruction in automotive electricity and engine performance. In addition, they will occasionally be required to perform some assignments involving basic service work to maintain their familiarity with these simpler operations. OSHA certification will also be attained along with the completion of reflection writings on all projects.

C470648 Automotive Technology III 7.5 credits

Students, who have successfully completed Level II, will continue to receive instruction in automotive electricity and engine performance: identification and function of parts and systems, part removal and replacement, diagnosis and repair of electrical problems, and use of related laboratory equipment. All students will complete their Portfolio and presentation requirements in order to receive their CTE certificate.

C4602016 Carpentry I 5 credits

In Level I, students will learn the safe use of hand tools and power tools used in residential construction. Elements of house framing construction techniques are covered as well as siding, roofing and Insulation applications. There is an emphasis on technical terms within the industry protocol. Students will also learn how to lay-out and cut a variety of woodworking joints and how to efficiently assemble a woodworking project. Writings will include project reflections and project design plans.

C4602017 Carpentry II 10 credits

For students who have successfully completed Level I, Level II is a continuation of residential construction techniques, but in greater detail. Sequential order of construction, job estimating and inventory control will be covered. Interior house systems are covered in conjunction with insulation, wallboard, interior trim, doors, windows and house module construction. Students will gain proficiency with hand tools and woodworking machinery while building various projects. OSHA certification will also be attained along with the completion of reflection writings on all projects.

C4602017 Carpentry III 7.5 credits

For students who have successfully completed Level II, Level III of Carpentry is the Portfolio year. Options in construction-related fields and further education related to carpentry will be discussed, as well as procedures for licensure. Techniques learned in previous years will be used in conjunction with live work on school system projects. All students will complete their Portfolio and presentation requirements in order to receive their CTE certificate in Carpentry.

C1104010 Computer Information Systems 5 credits

This course introduces students to a variety of concepts: Computers and Digital Basics, Computer hardware, Computer software, Operating systems, Local Area Networks and the Internet, Web and E-Mail, Digital Media, and Computer Programming. History of the Computer Industry, Careers, and Ethics Issues are areas of research. Emphasis will be on hands-on activities in the lab and over the Internet.

C1205006 Culinary Arts I 7.5 credits

Students in Level I will be introduced to baking and food preparation skill development. Emphasis is on health, safety and sanitation regulations and practices. Students will apply the fundamentals of food service with the proper use of tools, equipment, terminology, measurement, ingredients, and recipe analysis. Students will describe the various cooking and mixing methods as they apply to various foods and baked products. In addition, students will research the hospitality career cluster and related culinary arts careers. Writing assignments will include project reflections for the student's portfolio.

Students of the Culinary Arts program are required to purchase, wear and maintain a chef's uniform, as well as protective footwear. Level II and III students must also purchase, wear and maintain a dining room service uniform. Financial Assistance is available to those who qualify.

C1205007 Culinary Arts II 12.5 credits

Level II students will develop technical skills in the preparation of soups, sauces, salads, and sandwiches in a live food service setting. In addition, Level II students will prepare various types of meat, poultry, seafood, vegetables and grains. Students will experience the various styles of table and customer services. Operating the "Apprentice Café" and performing catering services, students will develop and employ foodservice math skills as well as customer service skills. Employability and communication skills will be enhanced through career cluster and pathway research. Students will be required to complete the OSHA Certification Program. OSHA certification will also be attained along with the completion of reflection writings on all projects.

C1205008 Culinary Arts III**15 credits**

Level III students will be exposed to intermediate and advance bakery instruction with a concentration in the understanding and production of various French pastries, tarts, tortes, and pies. Students will also be instructed in basic cake decorating and individually plated desserts. Level III students will apply accounting and managerial learning of the food service industry while operating the department's restaurant and storeroom. Culinary III students will complete their portfolios for presentation before a panel of administrators and food service professionals in order to receive their CTE certificate. Students will also prepare for the National Restaurant Association's ServSafe Certification Exam. All students will complete their Portfolio and presentation requirements in order to receive their CTE certificate in Culinary.

C5004016 Design and Visual Communication I**5 credits**

Level I students explore the basic concepts and vocabulary of design and visual communication. Students are taught the proper use of equipment associated with the process through the Macintosh computer lab, including the use of the computer and associated peripherals such as cameras, printers and scanners. The course introduces students to the principals of graphic design through a series of exercises that allow students to explore the software tools and integrate these tools with concepts of design, including clarity, originality, relevance to the subject matter and visual appeal. Related mathematics and communication skills are imbedded in design instruction. Level I students are introduced to design concepts through exploration of Adobe Photoshop and a series of design concept exercises which establish foundations in concepts such as design unity, color theory, use of space, emphasis and visual themes, consistency and repetition and hierarchies of dominance. Written assignments will include project reflections for the student's portfolio.

C5004017 Design and Visual Communication II**7.5 credits**

DVC II students build upon their first year experience by expanding their skills in software and design concept areas. Photoshop is reviewed and students move from it to developing vector graphic designs in Adobe Illustrator. Concepts of story and advertising illustration are explored through various projects and students develop a technical knowledge of vector graphic production through a scaffolded series of lessons building skills in Illustrator. Level II students move into Adobe InDesign in the year's second half developing skills in integrating imagery constructed in Photoshop and Illustrator and importing into InDesign for creation of more complex multipage documents. InDesign becomes the platform for combining text and imagery and preparing it for print in real world projects for clients and organizations within the school. Exercises combine increasing technical skills with developing visual design skills through integrated projects that target specific visual design concepts. Students are introduced to basic photographic concepts such as composition and exposure in a series of workshops. OSHA safety certification will also be attained along with completion of written reflections for the portfolio.

C5004018 Design and Visual Communication III**10 credits**

DVC III students use the final year to expand their knowledge of software and design concepts by undertaking a series of real world design projects utilizing Photoshop, Illustrator and InDesign. Projects become more focused on actual work projects for clients in the school and local community. Communication skills such as working with clients and of giving and receiving critiques of work are developed and enhanced. The year starts with a one month focus on photographic concepts and skills stepping students through concepts of photographic composition and workshops ranging from exposure control to portrait and product lighting. Students develop a smaller portfolio of photographic works and write reflections based upon their experiences in these workshops. The year concludes with exploration of graphic areas such as web design, animation design and basic video shooting, storyboarding and

editing. All students are required to complete a senior portfolio with a PowerPoint public presentation that highlights their best works from their portfolio and summarizes their three year experience.

C1312106 Early Education and Care I 5 credits

During Level I, students will be introduced to the study of child development. Students will study the physical, intellectual, social, and emotional development of young children from birth to age 9. Through observations, the students will develop an understanding of the skills needed to educate and care for young children. Level I students will observe and participate in the laboratory childcare center and in the on-site infant/toddler childcare program while working on the creation of a portfolio.

C1312107 Early Education and Care II 7.5 credits

During the second year, students who have successfully completed Level I, will continue their study of child development, focusing on how children learn, and how to provide developmentally appropriate experiences for them. Students will understand the teacher's role in maintaining a healthy, safe, and stimulating environment, while guiding children's behavior as demonstrated by the lesson plans they will prepare and implement which will become part of their portfolio.

C1312108 Early Education and Care III 10 credits

During the third year, students who have successfully completed Level II, will study all aspects of managing/owning and operating a childcare center. They will develop an understanding of employability skills, such as completing job applications, developing resumes, and strong work ethics. They will develop and implement curriculum for the laboratory childcare center and in the on-site infant/toddler childcare programs, as well as participate in internships/coops at various sites in the community. Students will acquire the American Red Cross First Aid, CPR/AED certification for infant/child, as well as completing and presenting their portfolio.

C4603026 Electrical Technology I 5 credits

Level one begins with covering safety, electrical symbols and print reading. Students are taught techniques for mounting boxes; drilling holes in framing, stripping cables and conductors, making splices, and wiring electrical devices. The focus for all Level I students is to practice the basic skills that are necessary to work in the electrical industry.

C4603027 Electrical Technology II 7.5 credits

Level II students, who have successfully completed Level I, are required to complete an OSHA 10 safety training certification. Students are taught electrical theory, including Ohms Law, solving series/parallel circuits, voltage drop on conductors and how to figure the cost of running electrical appliances. Students will also learn techniques for bending metallic and nonmetallic raceways. Installations of electrical services, including circuit breaker panels are covered and "old work" installations of electrical wiring in existing homes.

C4603028 Electrical Technology III 10 credits

Level III begins with students, who have successfully completed Level II refreshing their knowledge of electrical safety. Next students are taught how to read ladder diagrams and wire industrial control devices. Students will work with relays, contactors and magnetic motor starters. They will also be introduced to electrical motors, DC generators, and power & control transformers. During senior year there is an increased focus on employability skills and what it takes to become a successful entrepreneur.

C1500006 Engineering I 5 credits

This course is an opportunity to introduce engineering as creative problem-solving and to learn the fundamentals of engineering. The major focus is to expose students to the engineering design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and drawing and documenting. Students will use 3D solid modeling design software to help them design solutions to solve proposed problems.

C1500007 Engineering II 7.5 credits

In Level II of Engineering and Design students who have successfully completed Level I, will further develop design, innovation, and technical problem solving skills. Students will employ engineering and scientific concepts in the solution of engineering design problems in various engineering fields such as Structural, Mechanical, Electrical, and Pneumatic systems. They will apply their knowledge of research and design to create solutions to various challenges, document their work in engineering notebooks and technical drawings, and communicate their solutions to peers and members of the school community. In this course students will experience engineering as a technical and creative career where you work individually and with others to solve problems and design things that are beneficial.

C1500008 Engineering III 10 credits

In Level III of Engineering and Design students who have successfully completed Level II, will design a solution to various technical problems throughout the course. This is an engineering research course in which students will work individually and in teams to research, design, test, and construct a solution to various engineering problems. The product development lifecycle and a design process will be used to guide and help the individual/team to reach a solution to each problem. This course allows students to apply all the skills and knowledge learned in previous engineering courses. The use of 2D and 3D design software will help students design solutions to their problems. This course also engages students in time management and teamwork skills, a valuable asset to students in the future. At the end of the course, each student will present a variety of their projects and solutions (from each year of engineering) to a panel of school administrators and industry reviewers, which is part of their senior career portfolio.

C1003017 Graphic Communication I 5 credits

This introductory course provides an opportunity for the students to experience the fundamentals of graphic communications. The sophomore curriculum will follow the MA framework and Print ED standards in the areas of orientation to Graphic Communications. Graphic design offset press, and finishing competencies will be introduced in this level. The students also learn the technical terms and the applied math related to each content area. Career portfolios will be introduced in this level and students will build the components into their portfolios in the format of a career plan.

C1003018 Graphic Communication II 7.5 credits

The level II Graphic Communications students, who have successfully completed Level I, will have the opportunity to build upon skills learned in level I. They will have the opportunity to learn digital file prep and digital file output to produce projects in Illustrator and Photoshop. They will learn digital positioning software and how to impose a document on the computer through to the plating process. They also learn to operate an offset press to the standards of the industry. Digital production printing will be introduced at this level. The students will also continue to develop their career portfolios. Guidance will be given for post secondary education.

C1003019 Graphic Communication III 10 credits

Level III students who have successfully completed Level II spend a substantial amount of time in the offset press area of the program. Students will learn to operate two different types of offset presses.

Students will produce a four-color process class project. In level 3, the students work on live projects which will prepare students for the world of work. Students will have the opportunity to meet with clients in order to design and pre-flight a project under the guidelines of the customer. Seniors will complete their career portfolio which is a CTE requirement. Students are eligible for Cooperative Education placement at this level if all course requirements are completed.

C5108016 Medical Assisting I 5 credits

This course offers the first phase in training for medial assisting. In this course, the student will identify and demonstrate the health and safety practices, regulations and the control of microorganism in the medical environment. The student will sanitize, disinfect and sterilize medical instruments and demonstrate sterile technique used in the physician's office during minor office surgery. Each level of Medical Careers will include senior portfolio development.

C5108017 Medical Assisting II 7.5 credits

In this course, students who have successfully completed Level I, will identify and demonstrate the preparation and assisting procedures for minor office surgery. The student will identify and demonstrate the use of medical terminology and its construct. The student will calculate the conversion of household measurement to basic metric measures, demonstrate procedures of administering a cardiac electrocardiogram conduct an initial physical assessment and become certified in adult CPR/AED/First Aid. The student will identify emergency and triage protocols.

C5108018 Medical Assisting III 10 credits

This course experience provides students who have successfully completed Level II, with basic laboratory procedures that are performed in a medical office and in various medical settings. Level three gives the student the opportunity to demonstrate a wide variety of office skills a necessary foundation for most any business application. The Medical Careers students will have a valuable externship (field experience) to add to their graduation portfolio.

C4605030 Plumbing Technology I 5 credits

Students will be introduced to the basics of plumbing including safe workplace practices, plumbing tools, materials, equipment, and procedures. Research includes career opportunities in the plumbing field. Laboratory experiences will include basic measurement and various pipe fittings and assembly. Instruction and practice aligns with the National Plumbing Code. **All students of the Plumbing Technology program are required to wear "career appropriate" attire, protective footwear and safety glasses for all laboratory experiences.**

C4805996 Welding and Joining Technology I 5 credits

Metal Fabrication & Joining Technology introduces students to a curriculum that involves working to obtain proficiency in various metal fabrication and welding processes. Students learn through project-based experiences. Technical instruction in the classroom covers concepts which apply mathematics, blueprint reading, and various welding symbols. Practical instruction covers machining processes in metal cutting, forming, bending, and assembling and fabrication of a variety of elements. Instruction in oxy-acetylene welding and cutting, M.I.G. and ARC welding processes are introduced at this level as outlined in the course frameworks, utilizing the American Welding Society's curriculum guide. **Students in the Metal Fabrication & Joining Technology program are required to wear "career appropriate" attire and protective footwear. In addition, students are required to wear protective welding jackets, gloves, welding helmets, and safety glasses at all times.**

C4805997 Welding and Joining Technology II 7.5 credits
Students, who have successfully completed Level I, will continue their progressive development of skills and knowledge of machine processes. The required practical experiences are given value by aligning them to the CVTE framework, assessing skills, and documenting the students' progress and achievement.

C4805998 Welding and Joining Technology III 10 credits
Students, who have successfully completed Level II, will complete a portfolio that is designed to highlight both written and photographed accomplishments, activities, and projects. Students will complete the competencies of the CVTE framework using the American Welding Society's curriculum as an approved sequence guide according to the Massachusetts DESE.

CTE Elective Offerings

C4706045 Basic Auto Ownership and Maintenance 2.5 credits
This course will provide students with the knowledge to make informed economic decisions and perform basic maintenance tasks to enhance the overall satisfaction of being an automobile owner. Through class assignments and lab activities, students will gain the fundamental knowledge necessary for owning and maintaining an automobile.

C4602020 Basic Woodworking 2.5 credits
Students will be introduced to the basics of carpentry including safe tool and equipment use, basic construction and cabinet making techniques. Through a series of woodworking projects, academic learning will come alive for students as they apply basic mathematics and geometry. In addition, students will be exposed to the science of wood and the physics of construction, all the while, developing fine wood crafting skills.

C1513016 Drafting/Design I 2.5 credits
This course teaches the fundamental techniques of drafting: *"the act and discipline of creating plans that visually communicate how something is constructed."* Through various assignments and projects, students will use traditional hand drafting in conjunction with computer software to create their drawings. Students learn how to accurately create two-dimensional drawings from three dimensional objects, leading to the drawing and modeling of fundamentals in mechanical and architectural design. Drafting/Design I teaches the building blocks necessary for all drafting/design professions. Online portfolios of each student's work will be created and updated throughout the course.

C1513017 Drafting/Design IIA 2.5 credits
This course teaches the fundamental techniques of architecture: *"The art or practice of designing and constructing buildings."* Students will learn how a house goes together, and what it takes to create accurate working plans, using traditional hand drafting in conjunction with computer software to create their drawings. Students learn how the American house came to be, and what led to the modern era of residential architecture, leading to the design, drawings and model of a house.

C1513018 Drafting Design IIB 2.5 credits
This course utilizes the knowledge and skill set from the previous classes into an in-depth series of long term design projects. Projects, chosen by the student, are researched from historical, practical and technical aspects, followed by the concept and preparation of professional quality plans & details. Advanced concepts are taught on a one-to-one or small group setting, leading to key milestones of the

design process. Online portfolios of each student's work created previously will be updated throughout the course, in addition to the creation of a resume and digital portfolio.

C1513019 Drafting/Design III

7.5 credits

This course utilizes the knowledge and skill set from the previous classes into an in-depth series of long term design projects. Projects, chosen by the student, are researched from historical, practical and technical aspects, followed by the concept and preparation of professional quality plans & details. Advanced concepts are taught on a one-to-one or small group setting, leading to key milestones of the design process. Online portfolios of each student's work created previously will be updated throughout the course, in addition to the creation of a resume and digital portfolio.

ENGLISH DEPARTMENT

| English offerings | | | | | |
|--------------------------------------------------------------|----------------------------------|----------|---------------|------------|---------|
| All students are required to take English every year. | | | | | |
| <i>Number</i> | Course | Grade(s) | Prerequisites | Trimesters | Credits |
| 010011 | English I | 9 | | 3 | 7.5 |
| 010013 | English I A (H) | 9 | | 1 | 2.5 |
| 010014 | English I B (H) | 9 | | 1 | 2.5 |
| 010015 | Humanities | 9 | | 6 | 15 |
| 010016 | Humanities (H) | 9 | | 4 | 10 |
| 010021 | English II | 10 | English I | 3 | 7.5 |
| 010023 | English II (H) | 10 | English I | 2 | 5 |
| 010030 | English III | 11 | English II | 1 | 2.5 |
| 010050 | AP Language | 11 | English II | 3 | 7.5 |
| 010040 | English IV | 12 | English III | 1 | 2.5 |
| 010060 | AP Literature | 12 | English III | 3 | 7.5 |
| 012015 | Linguistics | 9 | | 1 | 2.5 |
| 010535 | History & Mystery of the Novel | 11-12 | English II | 1 | 2.5 |
| 010536 | Literary Analysis & Storytelling | 11-12 | English II | 1 | 2.5 |
| 010605 | Shakespeare | 11-12 | English II | 1 | 2.5 |
| 010615 | Dystopian Visions | 11-12 | English II | 1 | 2.5 |
| 010616 | Gothic Literature | 11-12 | English II | 1 | 2.5 |
| 010625 | Contemporary Literature | 11-12 | English II | 1 | 2.5 |
| 010645 | African-American Literature | 11-12 | English II | 1 | 2.5 |
| 010646 | Women Writers | 11-12 | English II | 1 | 2.5 |
| 010657 | Hip Hop Literacy | 11-12 | English II | 1 | 2.5 |
| 011025 | Media Bias and Controversy | 11-12 | English II | 1 | 2.5 |
| 011046 | Creative Writing | 11-12 | English II | 1 | 2.5 |
| 011055 | Changing the World: Social Media | 11-12 | English II | 1 | 2.5 |
| 011567 | CTE Portfolio/Presentation Gr11 | 11 | English II | 1 | 2.5 |
| 011568 | CTE Portfolio/Presentation Gr12 | 12 | English III | 1 | 2.5 |
| 012037 | English--SAT Prep Grade 11 | 11 | English II | 1 | 2.5 |
| 012038 | English--SAT Prep Grade 12 | 12 | English III | 1 | 2.5 |
| 111015 | Intro to Journalism: Writing | 10-11 | English I | 1 | 2.5 |
| 111017 | Journalism | 11 | English II | 1 | 2.5 |
| 111018 | Advanced Journalism | 12 | English III | 1 | 7.5 |
| 019926 | MCAS Support (11) | 11 | English II | 1 | 2.5 |
| 019927 | MCAS Support (12) | 12 | English III | 1 | 2.5 |

ENGLISH OFFERINGS

010011 English I 7.5 credits

This English/Language Arts I (9th grade) course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and includes the four aspects of language use: reading, writing, speaking, and listening. Typically, this course introduces and defines various genres of literature, with writing exercises often linked to reading selections. English I (C) is a full-year 180 day course.

043020 Humanities C 15 credits

Humanities integrates history and English curriculum to foster student engagement and application of skills between subjects. This course can be taken in place of World History II (A), World History II (B) and English I. Although Humanities shares an identical curriculum with distinct English and history options, the skill and content are aligned and taught in conjunction with one another. This course, **which includes the Humanities Study Skills course**, provides a yearlong forum to develop core reading, writing, and thinking strategies in the context of both history and literature.

Humanities Study Skills

This course complements the content learned in Humanities with study skills aimed at helping ninth grade students in their adjustment to high school. Students will develop skills such as organization, study strategies, and time management. A particular focus will be placed on critical reading of expository and narrative documents and analytical writing strategies.

010013 English I Honors A 2.5 credits

This course is intended as a Pre-AP class for freshmen who are highly motivated and show an aptitude for skill acquisition in reading, writing, language, speaking, and listening. Students will cover the same curriculum as English I (C) but at a quicker pace and in more depth.

010014 English I Honors B 2.5 credits

This class completes the curriculum begun in the "A" component of this course.

043025 Humanities (Honors) 10 credits

This course is intended as a pre-AP class for freshmen who are highly motivated and show an aptitude for skill acquisition in reading, writing, language and historical analysis. Humanities integrates history and English curriculum to foster student engagement and application of skills between subjects. This course can be taken in place of World History II (A), World History II (B), English I Honors (A) and English I Honors (B). Students will cover the same curriculum as Humanities (C) but at a quicker pace and in more depth.

010021 English II 7.5 credits

This English/Language Arts II (10th grade) course offers a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. English II (C) is a full-year 180 day course.

010021 English II Honors 5 credits

This course is designed as a Pre-AP class for sophomores who are highly motivated and exhibit an aptitude for skill acquisition in critical reading, thinking, and writing skills. Students will cover the same curriculum as English II (C) but at a quicker pace and in more depth. English II (H) is a two trimester 120 day course.

010030 English III 2.5 credits

This English/Language Arts III (11th grade) course continues to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of their writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

010040 English IV 2.5 credits

This English/Language Arts IV (12th grade) course blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

010050 AP Language 7.5 credits

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

010060 AP Literature & Composition 7.5 credits

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing). *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam*

English Electives (English credit)

010645 African American Literature 2.5 credits

This course uses a variety of texts and media to explore the richness and complexity of African-American expression. The course will trace significant themes in African-American literature through major episodes of American history such as slavery, the Civil War, Reconstruction, the Harlem Renaissance, the Civil Rights movement, and the present. Students will read and write critically and conduct at least one oral presentation. African-American Literature counts toward the English graduation requirement.

010555 African-American Experience: Slavery and Abolition 2.5 credits

This integrated course combines the history, literature, and culture of African-Americans. Through documents, literature, and film, students will study the institution of slavery, the abolitionist movement, the Civil War, and the Reconstruction Era. Students may select whether this course counts toward either their English or Social Studies graduation requirement.

010556 African-American Experience: Civil Rights Movement 2.5 credits

This integrated course combines the history, literature, and culture of African-Americans. Through documents, literature, music, and film, students will study the failure of Reconstruction through the Civil Rights movement of the 50s and 60s. The course will also address current issues in the African-American community. Students may select whether this course counts toward either their English or Social Studies graduation requirement.

010625 Contemporary Literature 2.5 credits

This course examines various genres of literature such as young adult literature, mystery/detective, horror, romance, and science fiction/fantasy. Within small group settings, students will choose, read, discuss, analyze, and evaluate novels. Students will read and write critically, produce creative projects, and conduct at least one oral presentation. Contemporary Literature counts toward the English graduation requirement.

011567 CTE Portfolio and Presentation Skills: Grade 11 2.5 credits

This course enables students to develop research and oral presentation skills in preparation for their cumulative CTE final product. This course will emphasize the practical application of research and speaking and listening skills necessary in the business world. This course is designed for juniors taking a CTE class. This course counts toward the English graduation requirement.

011568 CTE Portfolio and Presentation Skills: Grade 12 2.5 credits

This course enables students to develop research and oral presentation skills in preparation for their cumulative CTE final product. This course will emphasize the practical application of research and speaking and listening skills necessary in the business world. This course is designed for seniors taking a level three CTE class. This course counts toward the English graduation requirement.

010615 Dystopian Visions 2.5 credits

This class is designed to actively engage students in thinking about their present and future society. The curriculum is based on a social constructivist approach that incorporates project-based learning and technological research skills. There will be three units of study, each featuring a different genre—novel, short story, film—with internet based research and nonfiction articles in each unit. The overarching goals are to guide students into thinking critically about how their society works and what their place is within that society. This course counts toward the English graduation requirement.

010616 Gothic Literature 2.5 credits

Gothic Literature will examine the Gothic tradition and give students the opportunities to explore how a work of literature reflects the fears and values of a culture. This course will examine “great” works of Gothic Literature and provide a historical overview of the genre. This course counts toward the English graduation requirement.

010657 Hip Hop Literature 2.5 credits

This course is designed to explore various elements of literary analysis, criticism, and interpretation through the lens of hip hop culture, specifically through the use of hip hop texts as primary sources. Students will critically engage with not only the literary elements within these texts, but also the various contexts and themes they illuminate. In doing so, students will be able to read and write in a manner that allows them to challenge the stereotypes associated with hip hop music and culture, and relocate the values and experiences of the hip hop community from the periphery to the center of dominant hegemonic conceptions of reality. The course will be divided up into various topical units such as Hope, Politics, Love, Family, and Pain.

010535 Histories and Mysteries of the Novel 2.5 credits

This elective will introduce students to the history of the mystery genre. The course will explore the development of mysteries and detective stories by studying fictional and true crime events.

010536 Literary Analysis & Storytelling 2.5 credits

This course will introduce students to close readings of literature by studying important works by writers of culturally diverse backgrounds. Students will gain experience reading, analyzing, and interpreting literary works by investigating the relationship between two modes of storytelling: literature and film. Students will study a variety of works linked across the two mediums by genre, topic, and style. This course counts toward the English graduation requirement.

011025 Media Bias in the Coverage of Controversial Topics 2.5 credits

Students will investigate the approach and bias of journalists, essayists, and documentary filmmakers in covering a variety of contentious issues. This course will explore and analyze the many techniques and rhetorical devices people use to convince audiences of their position on controversial topics. This course counts toward the English graduation requirement.

010605 Shakespeare 2.5 credits

This course is for students interested in Shakespeare and his theater as well as performance. Students will study sonnets and a variety of his plays, both comedy and tragedy. Students will read and write critically and conduct at least one oral presentation. Shakespeare counts toward the English graduation requirement.

011055 Changing the World: Affecting Change through Social Media 2.5 credits

This project based class is designed for juniors and seniors interested in using information and communication technology (ICT) to create collaborative, real-world assignments that are mainly self-directed. For each assignment, students will create a product that fulfills the requirements of that assignment by selecting an area of interest, completing research, then designing and creating the necessary goods and services required. Students are also required to keep journals reflecting on their own practices and learning over the course of the semester, as well as submitting more formal reflections highlighting their experiences working on the various projects. Students in this course will be expected to meet state content standards and the state requirements for 21st Century Skills, which include creative problem solving, working collaboratively, adjusting to changing circumstances, and effectively manipulating and disseminating information. Students will read and write critically, produce creative projects, and conduct at least one oral presentation. This course counts toward the English graduation requirement.

010646 Women Writers 2.5 credits

In this course students will read a variety of texts penned by women writers, paying attention to commonalities and differences among women, the social contexts of women's lives, and the personal and familial influences that contribute to this writing. The literature and poetry being studied will cross racial, ethnic, and religious lines, focusing on the uniqueness of the female experience. Students will read two novels in the course as well as mixture of additional texts, analyzing each for message, motivation, influence, and contextual influence. This course counts toward the English graduation requirement.

English electives (Non-English credit)

011046 Creative Writing 2.5 credits

Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting). This is an elective course and does not count toward the English graduation requirement.

111015 Introduction to Journalism: Writing 2.5 credits

Introduction to Journalism: Writing teaches students the basics of writing for a newspaper, including the fundamentals of a reporter's job. Students will be introduced to the history of newspapers, the elements of news, the differences between hard and soft news, the basics of interviewing, and the legalities and ethics of journalism. Submissions to the online school newspaper, Eagle's Eye, will be part of this course. This is an elective course and does not count toward the graduation requirement.

111018 Journalism 2.5 credits

Journalism is an intermediate course for serious journalism or writing students who want to build their writing repertoire of skills, see their work published in the AHS newspaper, the Eagle's Eye and local newspapers, and who can work independently. Photojournalism and layout will be integral components of this course. Journalism and Advanced Journalism students meet together. Juniors and seniors will have the opportunity of being nominated for the International Honor Society for High School Journalists, the "Quill and Scroll." Students can take this course multiple times. This is an elective course and does not count toward the graduation requirement.

111018 Advanced Journalism 7.5 credits

Advanced Journalism is for serious journalism or writing students who want to build their writing repertoire of skills, see their work published, and can work independently. Senior editors and editors will be selected and students will have numerous opportunities to see their work published in the online school newspaper, Eagle's Eye, as well as other local and online newspapers. Photojournalism and layout will be integral components of this course. Juniors and seniors will have the opportunity of being nominated for the International Honor Society for High School Journalists, the "Quill and Scroll." This is an elective course and does not count toward the graduation requirement.

012015 Linguistics 2.5 credits

This course uses an analytic approach in which explicit attention will be paid to Standard Written English as a product of the functional components of language rather than its application in the creation of literature. This course focuses on English morphology (words forms, origins, etymology) and the English

sentence (structure, syntax, patterns). Determining the meaning of unknown words and how words function within a sentence will be the cornerstones of the class. This course is an elective and does not count toward the English graduation requirement.

012037 SAT Prep (Verbal) Grade 11 2.5 credits

This course provides college-bound students with rigorous practice in analytical thinking and the skills and strategies associated with taking an SAT reasoning test. Topics covered include active reading strategies involving paraphrasing and annotating, topic development, writing conciseness, editing, word root identification, and vocabulary development. Time management skills and scoring procedures are also reviewed. Course materials include official SAT preparation books, previous SAT examinations, and online materials. This is an elective course and does not count toward the graduation requirement.

012038 SAT Prep (Verbal) Grade 12 2.5 credits

This course provides college-bound students with rigorous practice in analytical thinking and the skills and strategies associated with taking an SAT reasoning test. Topics covered include active reading strategies involving paraphrasing and annotating, topic development, writing conciseness, editing, word root identification, and vocabulary development. Time management skills and scoring procedures are also reviewed. Course materials include official SAT preparation books, previous SAT examinations, and online materials. This is an elective course and does not count toward the graduation requirement.

English Language Arts for ELL 7.5 credits

This is a full-year course offered to transitioning LEP students. This course guides students who have mastered fundamentals of English to develop academic fluency in reading, writing, listening, speaking, and thinking directly in English. Emphasis is placed on reading grade level materials, understanding and responding to rapid academic and social speech, writing extended expressive and analytical essays from sources, and an oral presentation on an academic topic. Exploration of cultural experiences will build students' confidence for participation in a multicultural, English language classroom.

EXPERIENTIAL LEARNING PROGRAM

221010 School Leadership – 2.5 credits

This course introduces students to the study of leadership development and is the first course in a series of leadership courses offered by the Experiential Learning Program. This class will prepare students for leadership roles and responsibilities at school and in the community. Students will learn and use 21st century skills, including life and career skills, learning and innovation skills, and information technology skills. This class is project-based and students will be expected to collaborate with their peers for small and large scale projects. The course will culminate with a 21st century skills digital portfolio. This class is recommended for students who are already involved in school activities or students who would like to get more involved in the school community. This course is offered to sophomores and juniors.

221067 College/ Career Planning for Juniors 2.5 credits

This course is recommended for juniors who want to get a head start on their postsecondary education plans. In this course students will learn how to complete an application, how to write a resume, and how to request letters of recommendation. The college admissions process timeline will be discussed and students will learn effective interviewing skills. Students will also begin to investigate different types of college plans and will plan a field trip to a local college campus. Students will also begin their college essays and be responsible for interviewing college students and graduates to learn more about the experience. This course is offered to juniors and it will be offered during the spring trimester.

221068 College/ Career Planning for Seniors 2.5 credits

This course is recommended for seniors who plan to apply for postsecondary education. During the first phase of this course students will learn the ins and outs about the college admissions process and the steps and timeline to apply to college – student/ parent/ guidance responsibilities, how to request a transcript, how to secure letters of recommendation, and how to send standardized test scores. During the second phase, students will explore various majors and careers and then research which colleges will be the best fit for them. Phase three will teach students how to properly and accurately fill out college applications and students will be given class time to complete their applications and college essays. Phase four will familiarize students with college financing – the FAFSA, CSS Profile, loans, grants, and scholarship applications. Students will also plan and coordinate a field trip to a local college campus to learn about the admissions process from an admissions counselor's point of view. Offered to first trimester seniors

221040 Community Leadership 2.5 credits

This course examines leadership in the context of service and community involvement. In this course, students in Grades 10-12 will gain an understanding of service and leadership for "the common good", analyze the setting in which service takes place, actively participate in an internship setting for a minimum of three hours a week, gain hands-on knowledge, skills and experience about a specific community or business organization, and develop their own leadership style and skills in a community setting. Students are expected to develop and meet service goals and objectives and reflect on their service experiences. The class is offered to juniors and seniors who wish to build and strengthen their leadership skills through service. Students must create an online Internship Portfolio to highlight their work in the community. Students enrolled in this class must be able to provide their own transportation to an outside community placement.

229980 Experiential Learning Field Experience 2.5 credits

Students in this course will leave the building to work in the community. Students will be responsible for online weekly assignments, a time log, and for creating an online Internship Portfolio that will highlight their experience and the lessons they learned in their field. This course is offered to juniors and seniors who successfully completed either Community Leadership or the ELP Capstone course. This course may be taken more than once. This is a Pass/Fail course.

220510 Office Assistant 2.5 credits

Students in this course are assigned to various house offices and high school programs. They are responsible for regular attendance and for keeping a service log. Confidentiality is essential in all positions due to the nature of the materials handled in their care. Students will be tested on their knowledge of the AHS campus and school personnel. Grading is Pass/Fail.

Work Study – No Credit

Students in this course will be given authorization to leave the building to work. Eligibility for this program will be based on graduation status and personal recommendations. Students must be referred to be considered for this program.

FOREIGN LANGUAGE DEPARTMENT

GENERAL REQUIREMENTS Two (2) years of a single foreign language (Class of 2016+)

| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
|--------|-------------------------------------------------------------------|---------------|-----------------|------------|---------|
| 061010 | Introduction to Spanish | 9, 10, 11, 12 | | 1 | 2.5 |
| 061011 | Spanish I A | 9, 10, 11, 12 | | 1 | 2.5 |
| 061012 | Spanish I B | 9, 10, 11, 12 | Spanish I A | 1 | 2.5 |
| 061021 | Spanish II A | 9, 10, 11, 12 | Spanish I B | 1 | 2.5 |
| 061022 | Spanish II B | 9, 10, 11, 12 | Spanish II A | 1 | 2.5 |
| 061023 | Spanish II Honors A | 9, 10, 11, 12 | Spanish IB | 1 | 2.5 |
| 061024 | Spanish II Honors B | 9, 10, 11, 12 | Spanish II H A | 1 | 2.5 |
| 061031 | Spanish III A | 10, 11, 12 | Spanish II B | 1 | 2.5 |
| 061032 | Spanish III B | 10, 11, 12 | Spanish III A | 1 | 2.5 |
| 061033 | Spanish III Honors A | 10, 11, 12 | Spanish II H B | 1 | 2.5 |
| 061034 | Spanish III Honors B | 10, 11, 12 | Spanish III H A | 1 | 2.5 |
| 061041 | Spanish IV A | 10, 11, 12 | Spanish III B | 1 | 2.5 |
| 061042 | Spanish IV B | 10, 11, 12 | Spanish IV A | 1 | 2.5 |
| 061043 | Spanish IV Honors A | 10, 11, 12 | Spanish III H B | 1 | 2.5 |
| 061044 | Spanish IV Honors B | 10, 11, 12 | Spanish IV H A | 1 | 2.5 |
| 061053 | Spanish V Honors A | 11, 12 | Spanish IV H B | 1 | 2.5 |
| 061054 | Spanish V Honors B | 11, 12 | Spanish V H A | 1 | 2.5 |
| 061070 | Spanish for the Medical Field (Elective) | 10, 11, 12 | Spanish I B | 1 | 2.5 |
| | | | | | |
| 061211 | French I A | 9, 10, 11, 12 | | 1 | 2.5 |
| 061212 | French I B | 9, 10, 11, 12 | French I A | 1 | 2.5 |
| 061221 | French II A | 9, 10, 11, 12 | French I B | 1 | 2.5 |
| 061222 | French II B | 9, 10, 11, 12 | French II A | 1 | 2.5 |
| 061223 | French II Honors A | 9, 10, 11, 12 | French I B | 1 | 2.5 |
| 061224 | French II Honors B | 9, 10, 11, 12 | French II H A | 1 | 2.5 |
| 061231 | French III A | 10, 11, 12 | French II B | 1 | 2.5 |
| 061232 | French III B | 10, 11, 12 | French III A | 1 | 2.5 |
| 061233 | French III Honors A | 10, 11, 12 | French II H B | 1 | 2.5 |
| 061234 | French III Honors B | 10, 11, 12 | French III H A | 1 | 2.5 |
| 061241 | French IV A | 10, 11, 12 | French III B | 1 | 2.5 |
| 061242 | French IV B | 10, 11, 12 | French IV A | 1 | 2.5 |
| 061243 | French IV Honors A | 10, 11, 12 | French III H B | 1 | 2.5 |
| 061244 | French IV Honors B | 10, 11, 12 | French IV H A | 1 | 2.5 |
| 061253 | French V Honors A | 11, 12 | French IV H B | 1 | 2.5 |
| 061254 | French V Honors B | 11, 12 | French V H A | 1 | 2.5 |
| | | | | | |
| 040010 | Geography and Cultures of the Western World and Russia (Elective) | 9, 10, 11, 12 | | 1 | 2.5 |
| 040011 | Geography and Cultures of Africa, Asia and Oceania (Elective) | 9, 10, 11, 12 | | 1 | 2.5 |

| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
|--------|----------------------------------|---------------|---------------|------------|---------|
| 068011 | American Sign Language IA | 10, 11, 12 | | 1 | 2.5 |
| 068012 | American Sign Language IB | 10, 11, 12 | ASL I A | 1 | 2.5 |
| 068021 | American Sign Language IIA | 10, 11, 12 | ASL I B | 1 | 2.5 |
| 068022 | American Sign Language IIB | 10, 11, 12 | ASL II A | 1 | 2.5 |
| | | | | | |
| 310081 | English as a Second Language I | 9, 10, 11, 12 | | 3 | 7.5 |
| 310085 | English as a Second Language II | 9, 10, 11, 12 | | 3 | 7.5 |
| 310087 | English as a Second Language III | 9, 10, 11, 12 | | 3 | 7.5 |
| 010660 | English Language for ELL | 9, 10, 11, 12 | | 3 | 7.5 |
| 322001 | ELA MCAS Support for ELL | 10, 11, 12 | | 1 | 2.5 |
| 322002 | Math MCAS Support for ELL | 10, 11, 12 | | 1 | 2.5 |
| 322003 | Science MCAS Support for ELL | 9, 10, 11, 12 | | 1 | 2.5 |
| 031616 | Physics for ELL | 9, 10, 11, 12 | | 3 | 7.5 |
| 041490 | US History for ELL | 9, 10, 11, 12 | | 2 | 5.0 |
| 310080 | Algebra for ELL | 9, 10, 11, 12 | | 3 | 7.5 |

COURSE DESCRIPTIONS

Foreign Language classes are designed for non-native speakers of the language. Heritage language speakers of a language are encouraged to enroll in a first year of a **different** language class from their native language. Those students wishing to pursue studies in their native language must take a literacy test and with the approval of the Department Coordinator will be placed in the appropriate level.

061010 Introduction to Spanish I 2.5 credits

Students are introduced to the four skills of foreign language in Spanish (reading, writing, listening, and speaking) via lessons dealing with common themes and every day activities and the geography of the Hispanic World. Oriented on students with no prior experience in foreign languages and who are in the process of developing language and independent study skills. Emphasis is on basic vocabulary and creating short sentences using the three conjugations in the present tense. This will prepares them to integrate successfully with other students in Spanish IA.

061011 Spanish I A 2.5 credits

To introduce Spanish language and Hispanic culture, Spanish 1 A and B emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak and understand the language at the basic level within predictable areas of need, using customary courtesies and conventions. The cultures of Spain and Latin America are introduced through the geography, art, literature, customs and history of Spanish-speaking peoples.

061012 Spanish I B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061021 Spanish II A 2.5 credits

Spanish II courses build upon skills developed in Spanish I, extending students’ ability to understand and express themselves in Spanish and increasing their vocabulary. Students will continue to learn how to engage in discourse for informative and or social purposes, write to show understanding of sentence construction and the rules of grammar, and build their comprehension of the spoken language. Students

will also explore some customs, history, and authentic pieces of literature so that they may deepen their cultural understanding of the language.

061022 Spanish II B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061023 Spanish II Honors A 2.5 credits

Students in the Spanish II honors courses will build upon skills developed in Spanish I. Students will continue to explore vocabulary and grammar so that they may be able to understand and express themselves in written and spoken language. Students will continue to learn how to engage in discourse for informative and or social purposes, write compositions to show understanding of sentence construction as well as the rules of grammar and build their comprehension of the spoken language. Students will also explore authentic pieces of literature as well as customs, and history so that they may deepen their cultural understanding of the Spanish language.

061024 Spanish II Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061031 Spanish III A 2.5 credits

Spanish III courses build upon skills developed in Spanish II, extending students’ ability to understand and express themselves in Spanish and increasing their vocabulary. Students will progress from the novice level of oral proficiency to a point where they can create with language and participate actively in more challenging conversations. The objectives are designed to strengthen the students’ command of the written language in a variety of situations. Students will continue to learn how to engage in discourse for informative or social purposes, write to show understanding of sentence construction and the rules of grammar, and build their comprehension of the spoken language. Students will also explore some customs, history, and authentic pieces of literature so that they may deepen their cultural understanding of the language.

061032 Spanish III B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061033 Spanish III Honors A 2.5 credits

Students in the Spanish III honors courses will build upon skills developed in Spanish II honors. Students will continue to explore vocabulary and grammar so that they may be able to communicate in written and spoken language. This course is for those students who show a facility for language learning and are committed to furthering their understanding of the way language works. Students will continue to learn how to engage in discourse for informative and or social purposes, write to show understanding of sentence construction and the rules of grammar, and build their comprehension of the spoken language. Students will also explore authentic pieces of literature as well as customs, and history so that they may deepen their cultural understanding of the Spanish language.

061034 Spanish III Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061041 Spanish IV A 2.5 credits

Spanish IV focuses on advancing the students’ skills and abilities to read, write, speak, and understand the Spanish language to that they can maintain simple conversations with sufficient vocabulary and an

acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a broad vocabulary.

061042 Spanish IV B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061043 Spanish IV Honors A 2.5 credits

Spanish IV Honors is a continuation course for students who have successfully completed Spanish 3 at the Honors level. Students acquire more sophisticated skills in each of the major communication areas: listening, reading, speaking, and writing. Major emphasis is on development of the ability to read authentic selections about the history, geography, literary works and current events of 5 Spanish-speaking geographical regions for good comprehension, discussion, reflection and composition skills while fostering a deeper-level appreciation of the culture. In written work, there is an emphasis on writing persuasive essays with smooth transitioning and an ample argumentation vocabulary.

061044 Spanish IV Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061053 Spanish V Honors A 2.5 credits

Spanish V Honors extends students’ facility with the Spanish language so that they are able to understand, initiate, and sustain general conversations on topics beyond basic survival needs. An environment of multimedia enables the student to pursue literary, cultural, historical and linguistic interests. A comprehensive final examination of grammar topics is presented in order for students to prepare for examinations and competitions. The class is conducted entirely in Spanish.

061054 Spanish V Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course

061070 Spanish for the Medical Field 2.5 credits

Spanish for the Medical Field is a course designed to give students an orientation to Spanish used in the health care industry. The focus will be on the Spanish necessary regarding the knowledge and skills called upon in Medical Assisting: taking medical histories, preparing for medical exams, assessing vital signs, transcribing records, anatomy and physiology, diet and hygiene. The emphasis will be on listening skills and on dialogues with a patient as well as on medical terminology used in patient interaction. All four skills will be used: speaking, reading, writing and listening. Students taking Medical Assisting in CTE will find reinforcement of basic lessons in this course.

061211 French I A 2.5 credits

French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level. French culture is introduced through the art, customs, and history of the French speaking people.

061212 French I B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061221 French II A 2.5 credits

French II builds upon the skills developed in French I, extending students' ability to understand and express themselves in French. Students will increase their vocabulary while engaging in discourse for informative or social purposes. Students will continue to expand their knowledge of the rules of grammar while understanding French that is spoken at a slower pace. Students will continue to explore the many aspects of the French speaking world.

061222 French II B 2.5 credits

This class completes the curriculum begun in the "A" component of this course.

061223 French II Honors A 2.5 credits

The course is a continuation of the work completed in French I. The course stresses proficiency in the four basic skills. Student-centered and proficiency driven activities will dominate the language instruction. Interpersonal, interpretive and presentational communicative modes will characterize classroom activity. This course is designed for those planning on taking AP French and/or advanced French courses.

061224 French II Honors B 2.5 credits

This class completes the curriculum begun in the "A" component of this course.

061231 French III A 2.5 credits

French III continues the balanced-skills approach of language acquisition with the goal of having students express increasingly complex concepts both verbally and in writing. Conscious control of the language system is developed. Comprehension goals for students may include attaining more facility in understanding language spoken at a normal rate, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

061232 French III B 2.5 credits

This class completes the curriculum begun in the "A" component of this course.

061233 French III Honors A 2.5 credits

Students electing French III Honors are those students who show a facility for language learning and are committed to furthering their understanding of the way language works. French III Honors continues the balanced-skills approach of language acquisition with the goal of having students express increasingly complex concepts both verbally and in writing. The pace of this course is faster than the regular French III course. Class will be conducted in French as much as possible.

061234 French III Honors B 2.5 credits

This class completes the curriculum begun in the "A" component of this course.

061241 French IV A 2.5 credits

French IV focuses on advancing students' skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations, understand speech spoken at a normal pace, read authentic prose, and write narratives that indicate a good understanding of grammar and varied vocabulary. Topics engage students in exploring the cultural diversity, historical significance and literary contribution of the francophone world. Emphasis is placed on the use of French for active communication. The course is conducted in French as much as possible.

061242 French IV B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061243 French IV Honors A 2.5 credits

Consistent with the program offered through the third year, French IV Honors focuses on developing and refining students’ skills and abilities to read, write, speak, and understand the French language so that they can participate in simple conversations with sufficient vocabulary and an acceptable accent, understand speech spoken at a normal pace, read from French literature and other sources, and write narratives that indicate a good understanding of grammar and a strong vocabulary. Topics engage students in exploring the cultural diversity, historical significance and literary contribution of the francophone world. Emphasis is placed on the use of French for active communication. The course is conducted entirely in French.

061244 French IV Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

061253 French V Honors A 2.5 credits

French V Honors extends students’ facility with the French language so that they are able to understand, initiate, and sustain general conversations on topics beyond basic survival needs. A multimedia environment enables the student to pursue literary, cultural, historical and linguistic interests. The class is conducted entirely in French.

061254 French V Honors B 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

040010 Geography and Cultures of the Western World 2.5 credits

This course provides students with an overview of the physical and human geography of the Americas, Europe and Russia. Topics may include the physical environment, the political landscape, the relationship between people and the land, languages and religions, economies of the region, and the movement of people, goods, and ideas. This course will emphasize U.S. roles and relations in the regions under study. The course requires daily internet access either at home or in the media center.

040011 Geography and Cultures of Africa, Asia, and Oceania 2.5 credits

This course provides students with an overview of the physical and human geography of Africa, the Middle East, Central, South, and East Asia, Australia and the island regions of the Pacific. Topics may include the physical environment, the political landscape, the relationship between people and the land, languages and religions, economies of the region, and the movement of people, goods, and ideas. This course will emphasize U.S. roles and relations in the regions under study. The course requires daily internet access either at home or in the media center.

068011 American Sign Language IA 2.5 credits

American Sign Language (ASL) 1 will introduce students to the fundamentals of ASL, using finger spelling, basic signs and gestures. Students will also touch upon linguistic features of ASL, basic grammatical structure, deaf history, and deaf culture. Students will be actively engaged in a variety of activities aimed to develop their receptive and expressive skills as well as further their understanding of ASL.

068012 American Sign Language IB 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

068021 American Sign Language IIA 2.5 credits

American Sign Language II continues to build onto the skills acquired from ASL I. Students will delve deeper into deaf history and culture and will begin to apply the vocabulary learned in situations they will face in daily life. ASL II aims to increase the speed at which the students can sign, increase their recognition/understanding of ASL vocabulary, as well as becoming more comfortable expressing themselves using American Sign Language.

068022 American Sign Language IIB 2.5 credits

This class completes the curriculum begun in the “A” component of this course.

English Language Education I 7.5 credits

This introductory course is designed to improve the listening, speaking, reading, and writing skills of students with limited or no English ability. Classroom activities are designed to lead students from basic personal conversation and oral expression to academic language and vocabulary, to improve reading comprehension, and to use written English in various social and academic contexts.

English Language Education II 7.5 credits

This course is designed to improve the listening, speaking, reading, and writing skills of students with intermediate English ability. The classroom activities focus on English grammar, vocabulary, pronunciation, and conversation. American culture and civics are also a focus at this level.

English Language Education III 7.5 credits

This course is designed to improve the listening, speaking, reading, and writing skills of advanced English proficiency. Emphasis is placed developing reading writing, and communication skills in everyday and academic situations. Classroom activities include small group work, oral presentations, role playing, vocabulary, research, and writing assignments.

English Language for ELL 7.5 credits

This course is offered to transitioning LEP students. This course guides students who have mastered fundamentals of English to develop academic fluency in reading, writing, listening, speaking, and thinking directly in English. Emphasis is placed on reading grade level materials, understanding and responding to rapid academic and social speech, writing extended expressive and analytical essays from sources, and an oral presentation on an academic topic. Exploration of cultural experiences will build students' confidence for participation in a multicultural, English language classroom.

ELA MCAS Support for ELL 2.5 credits

This course is designed to help limited English proficient students master the skills necessary to achieve proficiency on state ELA standardized tests (MCAS). The skills that are easily transferred to core content areas include but are not limited to: note-taking, paraphrasing, summarizing, outlining, organizing information, and test-taking techniques. Materials from core subjects will be used for the application of skills in the classroom setting. *Students will be assigned (based on need) to participate in this offering*

Math MCAS Support for ELL 2.5 credits

This course is designed to help limited English proficient students master the skills necessary to achieve proficiency on state Math standardized tests (MCAS). The skills that are easily transferred to core content areas include but are not limited to: note-taking, paraphrasing, summarizing, outlining, organizing information, and test-taking techniques. Materials from core subjects will be used for the

application of skills in the classroom setting. *Students will be assigned (based on need) to participate in this offering*

Science MCAS Support for ELL

2.5 credits

This course is designed to help limited English proficient students master the skills necessary to achieve proficiency on state Science standardized tests (MCAS). The skills that are easily transferred to core content areas include but are not limited to: note-taking, paraphrasing, summarizing, outlining, organizing information, and test-taking techniques. Materials from core subjects will be used for the application of skills in the classroom setting. *Students will be assigned (based on need) to participate in this offering*

Physics for ELL

7.5 credits

How does the world work? What laws govern the behavior of everyday objects? This college preparatory course answers these questions through an in-depth study of classical mechanics (motion, force, momentum and energy); heat (temperature, calorimetry, change of state and thermal expansion); waves (sound, light and optics); and electricity and magnetism (field theory, simple AC and DC circuits). Topics will be presented theoretically and demonstrated visually. Laboratory experimentation and reporting supplement class work by allowing students to further investigate and apply theoretical concepts.

US History for ELL A

5 credits

This course is designed for the student with limited English proficiency. The course is designed to give the students the direct attention that they need as well as give them the content and the skills needed to be successful. United States history content will be covered in the course in preparation for the history MCAS exam. Eligible students will be selected for this course. *Students should not sign up for this course.*

Algebra for ELL

7.5 credits

This course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and engaging in methods for analyzing, solving, and using quadratic functions.

HEALTH & PHYSICAL EDUCATION OFFERINGS

080510 Health Education 2.5 credits

Students will acquire the knowledge and skills necessary to assess risk, communicate health information and make healthy decisions. Topics covered in grade 9 Health Education include violence and substance abuse prevention, human sexuality and relationships, family life, mental health and stress management. All topics align with MA Comprehensive Health Curriculum Framework.

080010 Physical Education 2.5 credits

Grade 10/11 Physical Education will provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness and conditioning activities.

080570 Health and Life Management 2.5 credits

Grade 12 students will take elective based PE/HE integrating health and life management topics. Physical activity and fitness will involve planning, implementing and evaluating personal fitness programs. Substance abuse education will focus on drugs, society and behavior. Additional topics will include family life and consumer health to provide students with knowledge and skills to promote lifelong health and wellness. All topics align with MA Comprehensive Health Curriculum Framework.

082450 Unified Peer Leader 2.5 credits

The Peer Leader program utilizes positive peer influence to promote a healthy, supportive, and respectful educational environment within our adapted physical education program. The course is designed to teach students leadership skills, critical thinking, and problem-solving skills through a hands-on leadership role in the classroom. The coursework includes weekly journals, self-reflection, a research paper, and hands-on participation. Students must have completed 7.5 credits in PE/Health prior to enrollment. Acceptance is subject to physical education approval.

MATHEMATICS DEPARTMENT

| Math Offerings | | | | | |
|-----------------------------------------------------------|-----------------------------|----------|------------------|------------|---------|
| All students are required to take math every year. | | | | | |
| <i>Number</i> | Course | Grade(s) | Prerequisites | Trimesters | Credits |
| 020690 | Algebra I | 9 | | 1 | 2.5 |
| 020520 | Algebra I | 9 | | 3 | 7.5 |
| 020720 | Geometry | 9-10 | | 3 | 7.5 |
| 020723 | Geometry Honors A | 9-10 | | 1 | 2.5 |
| 020724 | Geometry Honors B | 9-10 | Geometry A (H) | 1 | 2.5 |
| 020561 | Algebra II A | 10-11 | Algebra I | 1 | 2.5 |
| 020562 | Algebra II B | 10-11 | Algebra II A | 1 | 2.5 |
| 020563 | Algebra II A (Honors) | 10-11 | Algebra I | 1 | 2.5 |
| 020564 | Algebra II (Honors) B | 10-11 | Algebra II A | 1 | 2.5 |
| 020570 | Algebra III | 11-12 | Algebra II (A+B) | 1 | 2.5 |
| 121041 | Accounting A | 11-12 | Algebra II | 1 | 2.5 |
| 121042 | Accounting B | 11-12 | Accounting A | 1 | 2.5 |
| 121042 | Trigonometry | 11-12 | Algebra II | 1 | 2.5 |
| 021101 | Precalculus A | 11-12 | Algebra II | 1 | 2.5 |
| 021102 | Precalculus B | 11-12 | Precalculus A | 1 | 2.5 |
| 021211 | Calculus A | 11-12 | Precalculus | 1 | 2.5 |
| 021212 | Calculus B | 11-12 | Calculus A | 1 | 2.5 |
| 021240 | AP Calculus AB | 11-12 | Precalculus | 3 | 7.5 |
| 021250 | AP Calculus BC | 11-12 | Precalculus | 3 | 7.5 |
| 022011 | Statistics A | 11-12 | Algebra II | 1 | 2.5 |
| 022012 | Statistics B | 11-12 | Statistics A | 1 | 2.5 |
| 101580 | AP Statistics | 11-12 | Algebra II | 3 | 7.5 |
| 101580 | AP Computer Science | 11-12 | | 3 | 7.5 |
| Math Electives (non-math credit) | | | | | |
| 222100 | Personal Financial Literacy | 11-12 | | 1 | 2.5 |
| 029910 | History of Math | 11-12 | | 1 | 2.5 |
| 029937 | SAT Prep, Grade 11 Math | 11 | | 1 | 2.5 |
| 029938 | SAT Prep, Grade 12 Math | 12 | | 1 | 2.5 |
| 121010 | Banking I | 10-12 | | 1 | 2.5 |
| 101550 | Computer Science (Java) | 10-12 | | 1 | 2.5 |

MATH OFFERINGS

020690 Algebra I 2.5 credits

This single trimester course completes the Algebra I curriculum. It is a required course for students currently enrolled in Algebra I in Grade 8.

020520 Algebra I 7.5 credits

This course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and engaging in methods for analyzing, solving, and using quadratic functions.

020720 Geometry 7.5 credits

This course emphasizes an abstract, formal approach to the study of geometry, and includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

020723 Geometry Honors A 2.5 credits

This course emphasizes an abstract, formal approach to the study of geometry, and includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

020724 Geometry Honors B 2.5 credits

This course completes the Geometry curriculum begun in the “A” component of this course.

020561 Algebra IIA 2.5 credits

The topics in this course include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

020562 Algebra IIB 2.5 credits

This course completes the Algebra II curriculum begun in the “A” component of this course.

020563 Algebra II Honors A 2.5 credits

The topics in this course include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

020564 Algebra II Honors B 2.5 credits

This course completes the Algebra II Honors curriculum begun in the “A” component of this course.

020570 Algebra III 2.5 credits

This course reviews and extends algebraic concepts for students who have already taken Algebra II A and Algebra II B. Course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. The courses may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series.

121041 Accounting A 2.5 credits

Accounting introduces and expands upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students will also learn how to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools may be used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

121042 Accounting B 2.5 credits

This course completes the Accounting curriculum begun in the "A" component.

021030 Trigonometry 2.5 credits

Trigonometry includes the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and oblique numbers.

021101 Precalculus A 2.5 credits

Precalculus combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations;; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.ex numbers.

021102 Precalculus B 2.5 credits

This course completes the Precalculus Honors curriculum begun in the "A" component of this course.

021211 Calculus A 2.5 credits

Calculus includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

021212 Calculus B 2.5 credits

This course completes the Calculus curriculum begun in the "A" component of this course.

021240 AP Calculus AB 7.5 credits

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the

following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

021250 AP Calculus BC 7.5 credits

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus BC provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications, and also require additional knowledge of the theoretical tools of calculus. These courses assume a thorough knowledge of elementary functions, and cover all of the calculus topics in AP Calculus AB as well as the metrically defined functions; advanced techniques of integration and advanced applications of the definite integral; and sequences and series.

All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.

022011 Statistics A 2.5 credits

Probability and Statistics introduces the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

022012 Statistics B 2.5 credits

This course completes the Statistics & Probability curriculum begun in the “A” component of this course.

101580 AP Computer Science 7.5 credits

Following the College Board’s suggested **curriculum designed to mirror college-level computer science** courses, AP Computer Science A provides students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. The course includes such topics as programming methodology, features, and procedures; algorithms; data structures; computer systems; and programmer responsibilities.

All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.

022030 Advanced Placement Statistics 7.5 credits

Following the College Board's suggested curriculum designed to parallel college-level statistics courses, AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

Math Electives

222100 Personal Financial Literacy 2.5 credits

This course provides students with an understanding of the concepts and principles involved in managing one’s personal finances. Topics may include savings and investing, credit, insurance, taxes

and social security, spending patterns and budget planning, contracts, and consumer protection. This course will also provide students with an overview of the American economy.

029910 The History of Mathematics 2.5 credits

This course includes a study of the historical development of numbers, computation, algebra, and geometry. Figures critical to the development of mathematics (e.g., Pythagoras, Pascal, Descartes) or important developments (e.g., pi, decimal fractions, probability theory, calculus) form the backbone of this class.

029937 SAT Prep, Grade 11 Math 2.5 credits

This course provides students with activities in analytical thinking and with the skills and strategies associated with standardized test taking (SATs). Topics covered include strategies for arithmetic, algebra, and geometry problems as well as time management, scoring procedures and calculator usage.

029938 SAT Prep, Grade 12 Math 2.5 credits

This course provides students with activities in analytical thinking and with the skills and strategies associated with standardized test taking (SATs). Topics covered include strategies for arithmetic, algebra, and geometry problems as well as time management, scoring procedures and calculator usage.

121010 Banking I 2.5 credits

Banking provides students with an overview of the American monetary and banking system as well as types of financial institutions and the services and products that they offer. Course content includes government regulations; checking, savings, and money market accounts; loans; investments; and negotiable instruments.

101550 Computer Science (JAVA) 2.5 credits

JAVA Programming provides students with the opportunity to gain expertise in computer programs using the JAVA language. As with more general computer programming courses, the emphasis is on how to structure and document computer programs, using problem-solving techniques. Topics covered in the course include syntax, I/O classes, string manipulation, and recursion.

SCIENCE DEPARTMENT

GENERAL REQUIREMENTS four (4) years of Science: Physics, Biology, and Chemistry

Grade level requirements:

GRADE 9 – Conceptual Physics (C) or Conceptual Physics A/B (H)

GRADE 10 – Biology A/B (C or H)

GRADE 11 – Conceptual Chem., Chemistry A/B(C or H) or any AP if Chem. A/B completed before grade 11

GRADE 12 – any two (2) trimesters

| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
|----------|-----------------------------|----------|---------------------|------------|---------|
| 030040 | Astronomy | 11,12 | | 1 | 2.5 |
| 030050 | Oceanography | 11,12 | | 1 | 2.5 |
| 030070 | Meteorology | 11,12 | | 1 | 2.5 |
| 030020 | Geology | 11,12 | | 1 | 2.5 |
| 030511 | Biology A | 10 | | 1 | 2.5 |
| 030512 | Biology B | 10 | Biology A | 1 | 2.5 |
| 030513 | Biology A Honors | 10 | | 1 | 2.5 |
| 030514 | Biology B Honors | 10 | Biology Honors A | 1 | 2.5 |
| 030515 | Biology A MCAS | 10 | | 1 | 2.5 |
| 030516 | Biology B MCAS | 10 | Biology MCAS A | 1 | 2.5 |
| 030530 | Regulatory Body Systems | 11,12 | Struct. Anatomy | 1 | 2.5 |
| 030540 | Structural Anatomy | 11,12 | | 1 | 2.5 |
| 030550 | Physical Anatomy | 11,12 | Struct. Anatomy | 1 | 2.5 |
| 030560 | AP Biology | 11,12 | Chemistry A | 1 | 2.5 |
| 030581 | Botany A | 11,12 | Biology A/B | 1 | 2.5 |
| 030582 | Botany B | 11,12 | Botany A | 1 | 2.5 |
| 030520 | Cell & Molecular Biology | 11,12 | Bio A/B Chem. A | 1 | 2.5 |
| 030600 | Genetics | 11,12 | Bio A/B Chem. A | 1 | 2.5 |
| 031610 | Conceptual Physics | 9 | | 3 | 7.5 |
| 031613 | Conc. Physics Honors A | 9 | | 1 | 2.5 |
| 031614 | Conc. Physics Honors B | 9 | Conc. Phys. Hon A | 1 | 2.5 |
| 031511 | College Physics A | 11,12 | Concept. Physics | 1 | 2.5 |
| 031512 | College Physics B | 11,12 | Concept. Physics | 1 | 2.5 |
| 031550 | AP Physics | 11,12 | Concept. Physics | 3 | 7.5 |
| 031051 | Conceptual Chemistry A | 11,12 | | 1 | 2.5 |
| 031052 | Conceptual Chemistry B | 11,12 | Conc. Chemistry A | 1 | 2.5 |
| 031013 | Chemistry Honors A | 9-12 | | 1 | 2.5 |
| 031014 | Chemistry Honors B | 10-12 | Chem. Honors A | 1 | 2.5 |
| 031060 | AP Chemistry | 11,12 | Chem. Honors A/B | 3 | 7.5 |
| 031070 | AP Environmental Science | 10-12 | Chemistry A | 3 | 7.5 |
| 032031 | Ecology A | 11-12 | Biology A/B | 1 | 2.5 |
| 032032 | Ecology B | 11-12 | Ecology A | 1 | 2.5 |
| 032095/6 | Science & Public Policy | 12 | | 1 | 2.5 |
| 030990 | Introduction to Forensics | 12 | | 1 | 2.5 |
| 031490 | Forensics Chemical Evidence | 12 | Intro. to Forensics | 1 | 2.5 |
| 031990 | Forensics Physical Evidence | 12 | Intro. to Forensics | 1 | 2.5 |
| 051560 | Scientific Illustration | 10-12 | | 1 | 2.5 |

will be based on problems from such standardized tests. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

030511 Biology A 2.5 credits

A two trimester course in which students will do a survey of Biochemistry, Cellular Organization, Cellular Reproduction, DNA Structure and Protein Synthesis. The course is designed to meet the MA frameworks in the Biology Science and Technology for Grades 9-10. This course will have a series of laboratory exercises that follow the curriculum. An emphasis will be placed on cooperative learning techniques, scientific writing, organization, and problem solving in an effort to prepare students for the upper level science courses.

030512 Biology B 2.5 credits

In a continuation of Biology A, students will do a survey of Genetics, Evolution, Classification, Biodiversity, and Ecology. There will be a series of laboratory exercises that follow the curriculum. An emphasis will be placed on cooperative learning techniques, scientific writing, organization, and problem solving in an effort to prepare students for the upper level science courses.

030513 Biology Honors A 2.5 credits

In this accelerated two trimester course, Biology IA H and Biology IB H, students will do a survey of Biochemistry, Cellular Organization, Cellular Reproduction, DNA Structure and Protein Synthesis. The course is designed to meet the MA frameworks in the Biology Science and Technology for Grades 9-10. An emphasis will be placed on cooperative learning techniques, scientific writing, organization, and problem solving in an effort to prepare students for the upper level science courses.

030514 Biology Honors B 2.5 credits

A continuation of Biology A students will do a survey of Genetics, Evolution, Classification, Biodiversity, and Ecology. The course will have a series of laboratory exercises that follow the curriculum. An emphasis will be placed on cooperative learning techniques, scientific writing, organization, and problem solving in an effort to prepare students for the upper level science courses.

030560 AP Biology 7.5 credits

Topics of study in this course include Biochemistry, Molecular and Cellular Biology, Genetics, Microbiology, Taxonomy, Animal and Plant Anatomy and Physiology, Evolution, Ecology, and Animal Behavior. Other topics will be included as time permits. Students taking this course must be committed to doing college-level work. Assignments include inquiry-based laboratory work requiring research and formal lab reports, note-taking with quizzes, internet homework, and two major projects. Students will be asked to work independently and in small groups. A summer assignment will be given to students prior to entering the class in the fall trimester. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

030600 Microbiology 2.5 credits

A single semester Microbiology course will provide students with a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics covered include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics, and metabolism.

030630 Cellular and Molecular Biology 2.5 credits

This is a single trimester course that is an in-depth study of the interactions of a cell. There is an emphasis on structure and dynamics as well as the biochemical mechanisms that allow life processes. This course is designed to help students who wish to take the SAT II in Biology.

031051 Conceptual Chemistry A 2.5 credits

This course is recommended for the college bound student. The focus is on concepts rather than an in depth math based science. It includes an intensive laboratory program with the development of laboratory skills. Topics will include: atomic structure, mole concepts, formula writing, naming, periodic trends and lab techniques. This course is a prerequisite for many upper level science courses.

031052 Conceptual Chemistry B 2.5 credits

This course is a continuation of Conceptual Chemistry A for the college bound student. The focus is on concepts rather than an in depth math based science. It includes an intensive laboratory program with the development of laboratory skills. Topics will include: stoichiometry, gas laws, formula calculations, thermochemistry, and nuclear chemistry.

031014 Chemistry Honors A 2.5 credits

This course is recommended for the highly motivated, science oriented student. It includes an intensive laboratory program with the development of laboratory skills. Topics will include: factor label/dimensional analysis, atomic structure, mole concepts, formula writing, naming, periodic trends. This course is a prerequisite for AP Chemistry.

031015 Chemistry Honors B 2.5 credits

This course is recommended for the highly motivated, science oriented student with an in depth math base. It includes an intensive laboratory program with the development of laboratory skills. Topics will include: stoichiometry, gas laws, net ionic equations, formula calculations, thermochemistry, and nuclear chemistry. The course includes an intensive laboratory program.

031020 Advanced Chemistry 2.5 credits

This course is recommended for the highly motivated, science oriented student. The course includes study of thermodynamics, equilibrium, oxidation reduction reactions, nuclear and solution chemistry. The course includes an intensive laboratory program.

031060 AP Chemistry 7.5 credits

AP Chemistry is a college level chemistry class that focuses on integrating material from Chemistry Honors with the advanced topics of Kinetics, Equilibrium, Thermodynamics, and Electrochemistry. Students in this course will participate in an intensive laboratory program. After learning laboratory techniques for synthesis and analysis of compounds, students will apply these techniques in inquiry based labs. Students use graphing calculators for data analysis and Vernier probes for collection of data. This course is for highly motivated students. Practice is essential for success; therefore, it is required on a nightly basis. A summer assignment is provided for review of Chemistry Honors materials. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

021031 Ecology A 2.5 credits

This two semester course, A&B, and is a laboratory-based ecology course which includes topics that encompass the environmental health of our planet. Students will investigate how organisms interact

with each other and their environments, and how human life is altering others' habitats. Skills will include data gathering, graphing analysis, and interpretation of how ecosystems change over time. interpretation of how ecosystems change over time. Class discussion will concentrate on the application of the fundamental ecological concepts to real-world settings, reflecting upon the social and political issues at hand.

032032 Ecology B 2.5 credits

A continuation of Ecology A, students will investigate how organisms interact with each other and their environments, and how human life is altering others' habitats. Skills will include data gathering, graphing analysis, and interpretation of how ecosystems change over time. Class discussion will concentrate on the application of the fundamental ecological concepts to real-world settings, reflecting upon the social and political issues at hand. Group and individual activities in class and laboratory will provide students with the skills necessary to complete the outdoor fieldwork component of the course.

031070 AP Environmental Science 7.5 credits

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. They will be able to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

030990 Introduction to Forensics 2.5 credits

This is a three trimester course (A, B and C) separated into Biological Evidence (A), Physics as Evidence (B) and Chemical Evidence(C). Each section will represent the scientific concepts and principles behind forensic science such as fingerprinting, trace evidence collection and analysis, ballistics, impression evidence, and crime scene investigation dependent upon what section they fall under. Labs will focus on current forensic techniques and will be an integral part of the course. Discussions and analysis of mature material will take place and students need to prepare accordingly. There will also be an interdisciplinary aspect with history, literature and film.

031490 Forensics: Chemical Evidence 2.5 credits

This is a three trimester course (A, B and C) separated into Biological Evidence (A), Physics as Evidence (B) and Chemical Evidence(C). Each section will represent the scientific concepts and principles behind forensic science such as fingerprinting, trace evidence collection and analysis, ballistics, impression evidence, and crime scene investigation dependent upon what section they fall under. Labs will focus on current forensic techniques and will be an integral part of the course. Discussions and analysis of mature material will take place and students need to prepare accordingly. There will also be an interdisciplinary aspect with history, literature and film.

031990 Forensics: Physical Evidence 2.5 credits

This is a three trimester course (A, B and C) separated into Biological Evidence (A), Physics as Evidence (B) and Chemical Evidence(C). Each section will represent the scientific concepts and principles behind forensic science such as fingerprinting, trace evidence collection and analysis, ballistics, impression evidence, and crime scene investigation dependent upon what section they fall under. Labs will focus on current forensic techniques and will be an integral part of the course. Discussions and analysis of

mature material will take place and students need to prepare accordingly. There will also be an interdisciplinary aspect with history, literature and film.

030040 Astronomy 2.5 credits

The Astronomy course will provide the student with a framework of knowledge and understanding pertaining to the origin of the Universe and our Solar system. To foster this knowledge, the topics included will include information from the earliest astronomers through present day advances in the field of space exploration. Research and laboratory work will be emphasized, both independently and in small groups. Topics will include Origins of the Universe, History of Astronomy, Solar System Relationships, Stars and their Life Cycle and Modern Astronomy.

030020 Geology 2.5 credits

The Geology course will provide the student with a framework of knowledge and understanding pertaining to the physical composition of the Earth. These explorations will range from atomic theory to the structure and function of the planet itself. Research and laboratory work will be emphasized, both independently and in small groups. Topics will include geochemistry, mineralogy, petrology and the earth's interior (physical layers, mechanical layers, volcano logy, and seismology.

030070 Meteorology 2.5 credits

The Meteorology course will provide the student with a framework of knowledge and understanding pertaining to Climate, Climate Systems and the balance which exists on the planet. Weather systems, climate change and natural disasters will be key focal points explored in the course. Research and laboratory work will be emphasized, both independently and in small groups. Topics will include interrelationship of temperature/pressure systems, climate, weather systems, severe weather systems and climate change.

030050 Oceanography 2.5 credits

The Oceanography course will provide the student with a framework of knowledge and understanding pertaining to the structure and function of the world's oceans. An extensive exploration of the characteristics and structure of the world's oceans will be undertaken with a focus on the land/ocean/air systems. Hypothetical scenarios both optimistic and disastrous will be explored. Research and laboratory work will be emphasized, both independently and in small groups. Topic will include geophysical oceanography, ocean structure, layering, the ocean floor, ocean circulation and Chemical oceanography.

030530 Regulatory Body Systems 2.5 credits

This course is designed for students who want to learn more about the human body than was covered in Biology. In particular, this course is for students thinking of preparing for higher education in health related sciences. The goal of this course is to understand the relationships of body systems in maintaining human life. This course will cover the endocrine, integumentary, lymphatic, and nervous systems, with a special concentration on sensory reception. Students n this class will participate in a variety of laboratory investigations, including dissections.

030540 Structural Anatomy 2.5 credits

This course is designed for students who want to learn more about the human body than was covered in Biology. In particular, this course is for students thinking of preparing for higher education in health related sciences. The goal of this course is to understand the relationships of body systems in maintaining human life. This course will cover basic human anatomical terms, the structural basis of

tissues, and bone and muscle structures. Students in this class will participate in a variety of laboratory investigations, including dissections.

030550 Physiological Functioning 2.5 credits

This course is designed for students who want to learn more about the human body than was covered in Biology. In particular, this course is for students thinking of preparing for higher education in health related sciences. The goal of this course is to understand the relationships of body systems in maintaining human life. This course will cover analysis of respiratory, cardiovascular, urinary and reproductive systems. Students in this class will participate in a variety of laboratory investigations, including dissections. The application of the fundamental ecological concepts to real-world settings, reflecting upon the social and political issues at hand. Group and individual activities in class and laboratory will provide students with the skills necessary to complete the outdoor fieldwork component of the course.

032095 Science & Public Policy-Resource Management & Conflict 2.5 credits

This course is a collaboratively taught science and history elective for juniors and senior. Topics that will be covered include social, political and economic ramifications of science in the fields of energy consumption and warfare. Course work includes article reviews, persuasive essays, quizzes and debates. Completion of Science and Public Policy-Physical & Environmental Health is not a requirement.

032096 Science & Public Policy-Phys & Environmental Health 2.5 credits

This course is a collaboratively taught science and history elective for juniors and senior. Topics that will be covered include social, political and economic ramifications of science in the fields of medicine and environmental science. Course work includes article reviews, persuasive essays, quizzes and debates.

032110 Science Fair/Research 2.5 credits

In the single semester Scientific Research and Design courses, students will conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

039990 Scientific Illustration 2.5 credits

This is a one trimester course. Scientific drawings are an important part of the science of biology. Biologists must be able to produce good quality scientific drawings regardless of artistic ability. Drawings allow you to record an image of the specimen observed and remember the important features of the specimen. You will be required to draw a large number of specimens during this course paying attention to detail. All illustrations done for this course must adhere to standard rules of scientific illustration.

SOCIAL STUDIES DEPARTMENT

GENERAL REQUIREMENTS four (4) years of Social Studies; US History for all juniors

GRADE-LEVEL REQUIREMENTS

GRADE 9 – World History II A/B (C or H) or Humanities (C or H)

GRADE 10 – US History A/B (C or H) or AP World History

GRADE 11 – two (2) trimesters of US History (C, H, or AP)

GRADE 12 – any two (2) trimesters

| Number | Course | Grade(s) | Prerequisites | Trimesters | Credits |
|----------|------------------------------------------------------------|----------|---------------|------------|---------|
| 040531/3 | World History II A (C/H) | 9 | | 1 | 2.5 |
| 040532/4 | World History II B (C/H) | 9 | WH II A | 1 | 2.5 |
| 040530 | Humanities C | 9 | | 6 | 15 |
| 040535 | Humanities H | 9 | | 4 | 10 |
| 041021/3 | US History A (C/H) | 10 | | 1 | 2.5 |
| 041022/4 | US History B (C/H) | 10 | US A | 1 | 2.5 |
| 040570 | AP World History | 10 | | 3 | 7.5 |
| 041031 | US History C | 11 | US B | 1 | 2.5 |
| 041032 | US History D | 11 | US C | 1 | 2.5 |
| 041040 | AP US History | 11 | | 3 | 7.5 |
| 04149 | LEP US History | 9-12 | | 1 | 2.5 |
| 01995 | LEP US History tutor | 11-12 | | 1 | 2.5 |
| 041075 | African American Experience: Slavery and Abolition | 11-12 | | 1 | 2.5 |
| 041076 | African American Experience: Civil Rights | 11-12 | | 1 | 2.5 |
| 041050 | Historiography through Attleboro | 11-12 | | 1 | 2.5 |
| 041620 | Criminal Law | 11-12 | | 1 | 2.5 |
| 041060 | National Security and the American Military | 11-12 | | 1 | 2.5 |
| 041525 | Science and Public Policy: Resource Mgmt & Conflict | 11-12 | | 1 | 2.5 |
| 041526 | Science and Public Policy: Physical & Environmental Health | 11-12 | | 1 | 2.5 |
| 041510 | US Government | 11-12 | | 1 | 2.5 |
| 041080 | Women's Studies: Early American History | 11-12 | | 1 | 2.5 |
| 040560 | AP European History | 12 | | 3 | 7.5 |
| 040610 | Asian Studies: Modern Asia | 11-12 | | 1 | 2.5 |
| 070030 | Asian Studies: Asian Philosophy | 11-12 | | 1 | 2.5 |
| 040645 | Global Issues: Environment | 11-12 | | 1 | 2.5 |
| 040646 | Global Issues: War and Peace | 11-12 | | 1 | 2.5 |
| 040647 | Global Issues: Terrorism | 11-12 | | 1 | 2.5 |
| 040995 | Holocaust Studies | 11-12 | | 1 | 2.5 |
| 043060 | Intro to Philosophy | 11-12 | | 1 | 2.5 |
| 043070 | 20 th Century Philosophy | 11-12 | | 1 | 2.5 |
| 042560 | AP Psychology | 11-12 | | 3 | 7.5 |
| 042555 | Abnormal Psychology | 11-12 | | 1 | 2.5 |
| 042556 | Developmental Psychology | 11-12 | | 1 | 2.5 |
| 042015 | Micro-Economics | 11-12 | | 1 | 2.5 |
| 042016 | Macro-Economics | 11-12 | | 1 | 2.5 |
| 042590 | Cultural Studies | 11-12 | | 1 | 2.5 |

9th Grade Social Studies Course Offerings

040531 World History II A

2.5 credits

This course studies the rise of the nation state in Europe and economic and political roots of the modern world, including the Industrial Revolution, 19th century political reform in Western Europe, European imperialism in Africa, Asia, and South America, revolution in Russia, the causes and effects of the First World War, and the rise of nationalism. The course will begin with a review of historical skills and geography.

040533 World History II Honors A

2.5 credits

This course utilizes the same curriculum as World History II, but explores topics in greater depth and at a faster pace. Skill development emphasizes the core areas of reading, writing and historical analysis. Students are expected to possess the motivation and work habits necessary for success in this rigorous academic class.

040532 World History II B

2.5 credits

This course examines the causes and consequences of the great military and economic events of the twentieth century, including the Great Depression, World War II, the Cold War, Chinese revolutions, and the continuing persistence of political, ethnic, and religious conflict in many parts of the world.

040534 World History II Honors B

2.5 credits

This course utilizes the same curriculum as World History II, but explores topics in greater depth and at a faster pace. Skill development emphasizes the core areas of reading, writing and historical analysis. Students are expected to possess the motivation and work habits necessary for success in this rigorous academic class.

040530 Humanities

15 credits

Humanities integrates history and English curriculum to foster student engagement and application of skills between subjects. This course can be taken in place of World History II (A), World History II (B) and English I. Although Humanities shares an identical curriculum with distinct English and history options, the skill and content are aligned and taught in conjunction with one another. This course, **which includes the Humanities Study Skills course**, provides a yearlong forum to develop core reading, writing, and thinking strategies in the context of both history and literature.

040535 Humanities Honors

10 credits

This course is intended as a pre-AP class for freshmen who are highly motivated and show an aptitude for skill acquisition in reading, writing, language and historical analysis. Humanities integrates history and English curriculum to foster student engagement and application of skills between subjects. This course can be taken in place of World History II (A), World History II (B), English I Honors (A) and English I Honors (B). Students will cover the same curriculum as Humanities (C) but at a quicker pace and in more depth.

10th Grade Social Studies Course Offerings:

041021 US History A 2.5 credits

Students examine the historical and intellectual origins of the United States during the Revolution and Constitutional eras. Students study the basic framework of an American democracy and the basic concepts of American government, as well as America's economic and social changes.

041023 US History Honors A 2.5 credits

This course utilizes the same curriculum as US History A, but explores topics in greater depth and at a faster pace. Skill development emphasizes the core areas of reading, writing and historical analysis. Students are expected to possess the motivation and work habits necessary for success in this rigorous academic class.

041022 US History B 2.5 credits

Students continue to examine the historical and intellectual origins of the United States. This course focuses on America's westward expansion, the establishment of political parties, economic and social change, sectional conflict, the Civil War, Reconstruction, and the closing of the frontier.

041024 US History Honors B 2.5 credits

This course utilizes the same curriculum as US History B, but explores topics in greater depth and at a faster pace. Skill development emphasizes the core areas of reading, writing and historical analysis. Students are expected to possess the motivation and work habits necessary for success in this rigorous academic class.

040570 AP World History 7.5 credits

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

11th Grade Social Studies Course Offerings:

041031 US History C 2.5 credits

Students analyze the causes and consequences of the Industrial Revolution and America's growing role in the international relations. Students study the goals and accomplishments of the Progressive movement and the New Deal. Students also learn about the various factors leading to American involvement in both World wars and the consequences of both on American life.

041032 US History D 2.5 credits

Students explore the causes, course and effects of the Cold War on American diplomatic relations, as well as changes in American policy since the end of the Cold War. Students analyze various economic and political issues of the latter half of the 20th century, including McCarthyism and consumerism of the 1950s, the New Frontier and Great Society programs of the 1960s, economic stagflation and conservative responses of the 1970s and 80s, as well as the economic boom of the 90s and bust of the 00s. Finally, students study the various social changes and movements of the last 60 years, including the Civil Rights, anti-war, women's and conservative movements.

041040 AP US History 7.5 credits

AP US History is a demanding introduction to American history and culture that assumes a high level of interest and competence. Because this course is similar to a first year college course, students should expect a heavier workload. The analytical thinking, writing, and reading skills that students develop in AP US History will equip them for college and lifelong learning. AP US History integrates political and social history in order to convey the experiences of particular groups within the broader perspective of the American past. At the same time, it connects events and issues from the past to the concerns of the present. The course explores Pre-Columbus through contemporary issues. Students will complete a comprehensive research project after the AP exam in May. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

Elective Social Studies Offerings: American Studies Focus

041075 African American Experience: Slavery and Abolition 2.5 credits

This integrated course combines the history, literature, and culture of African-Americans. Through documents, literature, and film, students will study the institution of slavery, the abolitionist movement, the Civil War, and the Reconstruction Era. This course can also be taken for English credit. See the English listings.

041076 African American Experience: Civil Rights 2.5 credits

This integrated course combines the history, literature, and culture of African-Americans. Through documents, literature, music, and film, students will study the failure of Reconstruction through the Civil Rights movement of the 50s and 60s. The course will also address current issues in the African-American community. This course can also be taken for English credit. See the English listings.

041050 History of Attleboro 2.5 credits

Students in this elective should have a desire to learn how historians conduct and present their research to the public. Students will examine both in class and through field studies, monuments, walking tours,

educational curricula, museum exhibits, and websites. Project-based learning requires students to conduct individual research on a topic in Attleboro's history and present it through one of the methods listed above.

041620 Criminal Law 2.5 credits

This course is designed to introduce students to the three main components of the Criminal Justice System: Law Enforcement Procedures, the Court System, and Corrections. Students will learn not only how each of these components operate independently, but also how they work collaboratively as part of one system.

041060 National Security and the American Military in the 21st Century 2.5 credits

This one-term Social Studies elective will examine current debates about the structures and roles of the U.S. Armed Forces in the early 21st century, and the evolution and analysis of threats to international peace and security. Students will be expected to be actively engaged in readings and discussions, and will select topics for individual research and presentation.

041525 Science and Public Policy: Resource Management & Conflict 2.5 credits

This course is a collaboratively taught science and history elective for juniors and seniors. Topics that will be covered include social, political, and economic ramifications of science in the fields of energy consumption and warfare. Course work includes article reviews, persuasive essays, quizzes, and debates. Completion of Science and Public Policy: Physical and Environmental Health is not a requirement. This course can also be taken for Science credit. See the Science listings.

041526 Science and Public Policy: Physical and Environmental Health 2.5 credits

This course is a collaboratively taught science and history elective for juniors and seniors. Topics that will be covered include social, political, and economic ramifications of science in the fields of medicine and environmental science. Course work includes article reviews, persuasive essays, quizzes, and debates. Completion of Science and Public Policy: Resource Management & Conflict is not a requirement but is recommended. This course can also be taken for Science credit. See the Science listings.

041510 US Government 2.5 credits

This elective course explores the political process in the United States at local, state and national levels. Particular attention is paid to the constitutional basis of legal governance. Students will apply understanding through the practice of governing in the school setting.

041080 Women's Studies: Early American History 2.5 credits

This course seeks to analyze the changing gender spheres of Colonial and early American women. Specific themes will include the changing nature of gender roles in the home, economy, politics and military as the nature of society changes in response to external and internal forces. The changing nature of how women are portrayed in history, art and literature will also be explored.

Elective Social Studies Offerings: Global Studies Focus

00560 AP European History 7.5 credits

Modeled on a first-year college course, AP European History is a demanding three-term elective surveying European history from the Renaissance to the present. The course both prepares students for the College Board's European History Advanced Placement Test, and provides an overview of modern "Western Civilization" and its place in world history. Students are expected to analyze, interpret and evaluate the materials of historical study: primary and secondary sources; works of arts and literature; maps, charts and graphs; and theories of historiography. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

040610 Asian Studies: Modern Asia 2.5 credits

This course will focus on current issues in Asia and how they are affecting the United States now and in the future. We will focus on conflicts, economics, environmental issues, and how these will play out in the world's future.

047030 Asian Studies: Asian Philosophy 2.5 credits

This course will cover the major religions in Asia including Hinduism, Buddhism, Confucianism, Daoism, Shinto, and Islam. We will look at their belief systems and their cultural heritage as shown through literature and art.

040645 Global Issues: The Environment 2.5 credits

This course will look at the environment as an issue, including its impact on such far flung events as genocide in Rwanda, and the impact of environmental catastrophes such as hurricanes Katrina and Sandy, as well as the nuclear disaster at Fukushima and the 2004 tsunami. It will also explore the environmental movement and the controversy in the US over global.

040646 Global Issues: War and Peace 2.5 credits

This course will focus on modern developments of war, the causes of war, as well as efforts to secure peace. We will focus on conventional, civil and unconventional wars, as well as attempted solutions including the Geneva Conventions, the United Nations and the International Criminal Court.

040647 Global Issues: Terrorism 2.5 credits

This course will focus on the growing world problem of terrorism, and attempt to understand it from multiple perspectives, and explore its causes, repercussions, and ways of avoiding it. Specifically we will look at State, Nationalist, Religious and Domestic Terrorism.

040995 Holocaust Studies 2.5 credits

This course will investigate the historical, social, political and psychological forces, ideas and events surrounding the Holocaust. Students will also explore the consequences of discrimination, racism and anti-Semitism as well as the relationship between individuals and society.

043060 Introduction to Philosophy 2.5 credits

This course is designed for intellectually curious students who wish to explore the fundamental concepts of Western philosophy and trace its development through the 19th century.

043070 **20th Century Philosophy** **2.5 credits**
This course is designed for intellectually curious students who wish to explore the fundamental concepts of Western philosophy and the various ways in which they are applied throughout the 20th century.

Elective Social Studies Offerings: Behavioral Studies Focus

042560 **AP Psychology** **7.5 credits**
Based on the College Board's suggested curriculum designed to parallel a college psychology course, the AP Psychology course introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, exposes students to each major subfield within psychology, and enables students to analyze and assess the methods that psychologists use in their science and practice. *All participants in this course are required to take the AP exam and pay a subsidized portion of the fee associated with this exam.*

042555 **Abnormal Psychology** **2.5 credits**
This one-trimester Social Studies elective will examine past and current theories of psychological functioning as they apply to the definition and treatment of mental disorders. Biological, psychological and social perspectives will be analyzed, and political and legal controversies examined. Students will be expected to read, reflect and write extensively, and to select individual topics to research and present.

042556 **Developmental Psychology** **2.5 credits**
This one-term Social Studies elective will examine current research and theories on life-span psychology. Biological, learned (experiential), and social factors in development will be studied across various ages of life. Emphasis will be put on adolescence and early adulthood as periods when new gains are combined with earlier endowments, achievements and conflicts to meet the advanced personal and social demands of adult functioning. Students will be expected to read, reflect and write extensively, and to research and present topics of individual interest.

042015 **Micro-Economics** **2.5 credits**
Microeconomics looks at the smaller picture and provides students with an understanding of the principles of economics that apply to individual decision-makers (both consumers and producers). We will explore the problems and challenges of running a small business, but also the impact of larger corporate and government policies, both on business and individuals.

042016 **Macro-Economics** **2.5 credits**
Macroeconomics will focus on the big picture (hence "macro"), providing an understanding of the principles of economics that apply to an economic system as a whole. We will particularly explore the financial debates around the national debt and economic stimulus, and the 2008 financial collapse, in the US, Europe and elsewhere.

042590 **Cultural Studies** **2.5 credits**
This course will look at contemporary American culture and some of the cultural theories that abound to look at what we value and why in modern America. We will cover such topics as race, gender, and class issues facing America today.

041490 ELL US History

2.5 credits

This course is designed for the student with limited English proficiency. The course is designed to give the students the direct attention that they need as well as give them the content and the skills needed to be successful. United States history content will be covered in the course in preparation for the history MCAS exam. Eligible students will be selected for this course. Students should not sign up for this course.

049955 ELL US History Tutor

2.5 credits

This course is designed for open-minded and patient juniors and seniors with a strong drive to help others. Student mentors assist English Language Learners in and out of the classroom both academically and with the transition to AHS. Mentors are expected not only to assist students, but serve as a model student to them. Additionally, mentors are expected to fulfill work ranging from reflective journals to a final portfolio.

Attleboro High School's Mission

Attleboro High School challenges all students to acquire the critical and creative skills necessary for success in an ever-changing world.

Attleboro High School's Learning Expectations

Attleboro High expects its graduates to possess these college-ready skills:

Academic

COMMUNICATION

AHS students will articulate and interpret thoughts and ideas clearly.

- Reading, Writing, Speaking, Listening, and Vocabulary

CRITICAL THINKING

AHS students will employ strategies to make meaning from new information.

- Analysis, Synthesis, Evaluation, Solving Problems, Questioning, Inference, and Appreciation

CREATIVE THINKING

AHS students will express creativity in their work.

- Originality, Innovation, Associative Thinking, Aesthetics, and Craftsmanship

INFORMATION

AHS students will marshal information to develop and support thoughtful conclusions.

- Problem Solving, Research, Interpretation, Evidence, and Presentation

TECHNOLOGY

AHS students will use technology appropriately to support their learning, productivity, and self-expression.

Civic

COMMUNITY

AHS students will honor their responsibilities to others.

- Citizenship, Local/National Issues, Financial/Business/Economic Literacy, and Respect for their Environment

GLOBAL AWARENESS

AHS students will navigate the complexities of modern life.

Social

INTERPERSONAL

AHS students will interact constructively with others.

- Collaboration, Social Sensitivity, Respect, leadership, and Conflict Management

INTRAPERSONAL

AHS students manage their behavior to promote their growth and well being.

- Adaptability, Self-Direction, Organization, Work Ethic, Responsibility, Integrity, Wellness, and Future Orientation.