

**COURSES
OF
INSTRUCTION**

2011 – 2012

IPSWICH HIGH SCHOOL

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IPSWICH HIGH SCHOOL GRADUATION REQUIREMENTS

The Ipswich School Committee requires that a student receive credit and passing grades in the following courses in order to graduate:

COURSE	LENGTH	CREDITS
English	Four years	20
Social Studies	Four years	20
**Mathematics	Four years	15/20
**Science	Four years	15/20
Foreign Language	Two years	10
*Physical Education		7.5
Health		2.5

* Sport replacement option for juniors and seniors for no credit; advanced scheduling required. (refer to page 30).

** Students may receive credit in a combination of 3 Math / 4 Science **OR** 4 Math / 3 Science to meet this requirement.

All students must earn 110 credits to graduate.

Students must schedule a minimum of 35 credits each year.

Students must earn a minimum of 30 credits each year to advance to the next grade.

GRADE POINT AVERAGE (G.P.A.)

1. Ipswich High School has four difficulty levels of courses (Advanced Placement, Honors, College Preparatory L2 and College Preparatory L1). We have four levels for G.P.A. computation. The weighted courses and G.P.A. provide maximum weight for grades received in A.P. courses and lesser weight for grades received in general or remedial level courses. For example, a grade of A+ in an AP course receives a weight of 5.00; in an Honors course, 4.50; in College Preparatory L2, 4.00; and in a College Preparatory L1 course, 3.50.

<u>GRADE</u>	<u>WEIGHT</u>				
	<u>A.P.</u>	<u>HONORS</u>	<u>COLLEGE PREP L2</u>	<u>COLLEGE PREP L1</u>	
A+	100-97	5.00	4.50	4.00	3.50
A	96-93	4.70	4.20	3.70	3.20
A-	92-90	4.50	4.00	3.50	3.00
B+	89-87	4.30	3.80	3.30	2.80
B	86-83	4.00	3.50	3.00	2.50
B-	82-80	3.70	3.20	2.70	2.20
C+	79-77	3.40	2.90	2.40	1.90
C	76-73	3.00	2.50	2.00	1.50
C-	72-70	2.70	2.20	1.70	1.20
D+	69-67	2.40	1.90	1.40	.90
D	66-65	2.00	1.50	1.00	.50

2. We offer courses at four difficulty levels so that all students may succeed in courses at their own level and earn recognition on the Honor Roll.

Please note: Course prerequisites should not be viewed as barriers, but rather indicators of minimum preparation for a course. Students who want to waive a course prerequisite or move up to the next level are encouraged to talk to the principal or a guidance counselor. An Honors Contract is available for these students.

3. Please note that students who enroll in Advanced Placement courses must take the Advanced Placement Exam in that subject in May. Advanced Placement test fees are paid by students.

ENGLISH

	<u>HONORS</u>	<u>COLLEGE PREP L2</u>	<u>COLLEGE PREP L1</u>
Grade 9	Honors English 9	English 9	English 9
Grade 10	Honors English 10	English 10	English 10
Grade 11	Honors American Literature	American Literature	
Grade 12	Honors Lit. & Comp. / A Senior Elective	Lit & Comp. / A Senior Elective	
	Advanced Placement		

SUPPLEMENTARY ELECTIVES - Credit as an elective only

Theatre Arts
Advanced Theatre Arts
Technical Theatre
Screenwriting and Filmmaking
Sports and Society (Gr. 11 & 12)
SAT English (Gr. 11 & 12)
Yearbook (Gr. 11 & 12)

All English courses are comprehensive regarding the various facets of language arts. Pre-course or summer reading is required at all levels, as are self-assessment portfolios. However, there are particular focuses emphasized at different levels. For example:

The Grade 9 program emphasizes the writing process and reading skills.

Grade 10 stresses research methods and literary analysis.

Grade 11 centers on American Literature.

Grade 12 requires the selection of an English 12 course that combines a core curriculum with a particular area of focus.

Advanced Placement English requires the approval of the English Department Chairperson.

NINTH GRADE

The principal concern of freshman classes is composition, but all courses stress the fundamentals of reading and writing. Students are placed into classes according to their prior achievement and the recommendation of their eighth grade English teacher.

110. ENGLISH 9 – COLLEGE PREP L1

5 credits

Designed for students with average reading and writing skills.

The primary focus of College Prep L1 English is the development of reading and writing skills. Students work with high interest fiction and non-fiction in a classroom setting that emphasizes fundamental literacy, coherent writing and effective study habits.

111. ENGLISH 9 – COLLEGE PREP L2

5 credits

Designed for students with above-average reading and writing skills.

This college preparatory course emphasizes the writing process and utilizes literary models, including short stories, plays, essays, poetry and novels.

112. HONORS ENGLISH 9

5 credits

Designed for students with high reading speed and comprehension skills as well as above average writing ability.

This advanced course is aimed at the high achiever who is motivated to take on challenging reading and writing assignments.

TENTH GRADE

The sophomore English program emphasizes reading and literary analysis of a broad spectrum of literature. Students take courses at appropriate learning levels in accord with prior achievement and the ninth grade teacher's recommendation. The composition focus is research and documentation.

114. ENGLISH 10 – COLLEGE PREP L1

5 credits

Prerequisite: Passing grade in ninth grade English and teacher recommendation.

The primary focus of this course is the development of reading and writing skills. Students work with high interest fiction and non-fiction in a classroom setting that emphasizes literacy, coherent writing and effective study skills.

115. ENGLISH 10 – COLLEGE PREP L2

5 credits

Prerequisite: Students must pass English 9.

This course emphasizes literature, composition, and research.

116. HONORS ENGLISH 10

5 credits

Prerequisite: An overall grade of not less than A- in English 9 or B in Honors English 9 and the recommendation of the ninth grade English teacher.

This course, aimed at serious language arts students with proven aptitude, provides the foundation for entry into junior and senior Honors and Advanced Placement courses. It requires considerable outside reading in the classics.

ELEVENTH GRADE

117. AMERICAN LITERATURE

5 credits

Prerequisite: Grade 11 Status

American Literature is a survey course that offers students an enhanced understanding of our national literature and how it reflects America's cultural heritage and national identity.

118. HONORS AMERICAN LITERATURE

5 credits

Prerequisite: An overall grade of not less than A- in English 10 CP2 or B in Honors English 10 and the recommendation of the tenth grade English teacher.

Honors American Literature is a survey course that offers students an enhanced understanding of our national literature and how it reflects America's cultural heritage and national identity. The course is designed for students with very high level language arts skills, very disciplined work habits, and the motivation and ability to take on challenging assignments and a demanding pace.

TWELFTH GRADE

The senior program is designed to complete our carefully planned progression of English courses at Ipswich High School.

Except for students nominated for Advanced Placement English, seniors are required to take the core course, English 12 Literature and Composition, paired with their choice of a senior

elective. The two courses together constitute the Grade 12 English requirement and earn 5 credits. The courses are heterogeneously grouped and can be taken at either the college-preparatory or honors level. In order to qualify for an honors contract, students must complete American Literature CP2 with an A- or Honors American Literature with a B and have the recommendation of their Grade 11 teacher.

Seniors selected for Advanced Placement English take A.P. only.

SENIOR ENGLISH CHOICES (CP2 AND HONORS LEVELS) (See course descriptions below)

Courses 121-129 are worth 5 credits.

121. ENGLISH 12 LITERATURE AND COMPOSITION/ CREATIVE WRITING: FICTION

123. ENGLISH 12 LITERATURE AND COMPOSITION/ CREATIVE WRITING: POETRY

125. ENGLISH 12 LITERATURE AND COMPOSITION/ JOURNALISM

127. ENGLISH 12 LITERATURE AND COMPOSITION/ CONTEMPORARY LITERATURE

129. ENGLISH 12 LITERATURE AND COMPOSITION/ SPEECH

CORE COURSE DESCRIPTION

ENGLISH 12 LITERATURE AND COMPOSITION: READING CRITICALLY, WRITING WELL

This course emphasizes the reading, writing, and independent thinking skills essential for academic success, active citizenship, and personal enjoyment.

Through the analysis of works by distinguished scholars and professional writers, students will refine their reading, writing, and reasoning skills, broaden their world views, and develop their own voices. Following all steps in the writing process, students will write compositions for different audiences and conduct focused, sustained research that will culminate in a major research paper. The class environment will provide opportunities for active discussion and collaboration.

ELECTIVE COURSE DESCRIPTIONS

121. ENGLISH 12 CREATIVE WRITING: FICTION

While working on all of the language arts, this part of the course will primarily provide students with the opportunity to read and write fiction. Students will read and analyze the works of a wide variety of writers of literary merit and use these works as models and inspiration for their own writing. They will also study and practice various techniques used by writers of fiction and create original short stories. In addition, the class will also serve as the production crew for an issue of Ipswich High School's literary magazine The Chameleon.

123. ENGLISH 12 CREATIVE WRITING: POETRY

While working on all of the language arts skills, this course will primarily provide students with the opportunity to read and write poetry. Students will read and analyze poems by a wide variety of traditional and contemporary poets of literary merit and use these works as models and inspiration for their own poetry. They will also study and practice various techniques used in both free verse and structured poetry and produce a body of work of their own. In addition, the class will also serve as the production crew for an issue of Ipswich High School's literary magazine The Chameleon.

125. ENGLISH 12 JOURNALISM

In this course students further develop and refine their language arts skills of reading, writing, listening, and speaking at a high level in preparation for college and the world of work. Students primarily work on these skills through the study of journalism and media. The course also includes production work on Ipswich High School's online newspaper, The Tiger Transcript.

127. ENGLISH 12 CONTEMPORARY WORLD LITERATURE

In this course students further develop and refine their language arts skills of reading, writing, listening, and speaking at a high level in preparation for college and the world of work. Students primarily work on these skills through thematic study of contemporary world literature.

129. ENGLISH 12 SPEECH

In this course students further develop and refine their language arts skills of reading, writing, listening, and speaking at a high level in preparation for college and the world of work. Students primarily work on these skills through the study of oral skills/speechmaking and the oral interpretation of prose and poetry. Whether fall or spring, the class ends with a public presentation to the student body and guests.

131. ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION 7 credits

Prerequisite: Enrollment by department approval for students with 15 minimum credits and a minimum of B+ in Honors American Literature or an aggregate A- in all previous English

courses (N.B. Students who are not selected and desire to be considered for A.P. may appeal for consideration. They should see the English Department Chairperson for more details.)

This course is specifically designed for the gifted and industrious language arts student who seeks advanced college placement. Every enrollee is required to attend extra sessions and take the A.P. examination. Multiple summer readings are required. Participation in round-table, seminar-style discussions is vital to success in the class.

SUPPLEMENTARY ENGLISH ELECTIVES

These electives are enrichment courses outside the core offerings. They carry elective credit only, not English credit. These courses are open to juniors and seniors.

132. SPORTS IN LITERATURE AND SOCIETY 2.5 credits

This course will examine the history, psychology and sociology of sports in our culture. Students will explore the ideas of personal triumph, goal setting, teamwork, and other concepts. The class will read biography, fiction and periodical articles. The class will analyze how different media accomplish different goals while dealing with similar topics. Assessed projects will include a researched report, news stories, film criticism, interviews and a “press conference”.

134. SAT ENGLISH PREP 2.5 credits

This course offers intensive preparation for taking the verbal section of SAT-1 and SAT-2. It also features a writing laboratory in which students may not only create college application essays but also refine their general writing skills through practice and conferencing. This course is highly recommended for most juniors and also for sophomores serious about attending challenging colleges.

135. YEARBOOK 2.5 Credits

This course will teach students the fundamentals of planning and producing Ipswich High School’s yearbook. Students will facilitate the design process, using the latest desktop publishing and graphic design programs. Students will assume responsibility for various sections of the book. As a result, Yearbook requires students to exhibit personal responsibility, leadership and artistic skill. Students will have the opportunity to hone skills in the areas of graphic design and layout, photography, business and desktop publishing. Meeting deadlines and teamwork are essential.

137. THEATRE ARTS 5 credits

138. HONORS THEATRE ARTS 5 credits

This course introduces students to basic stage terminology, physical and technical aspects of the stage and performance experience. Students will learn warm-up exercises for the voice and body, will study relaxation, concentration, focusing of sensory memory, motivation, and how to build a character through script study, pantomime, improvisation and memorized

monologue and scene work. Honors participation involves performance time beyond the normal school day. Level placement is decided by agreement between student and instructor.

139. TECHNICAL THEATRE

5 credits

140. HONORS TECHNICAL THEATRE

5 credits

This course will focus on basic set-building techniques, including flats and set-pieces; set-painting techniques; set-planning for various styles of theatre, including creating scaled drawings for execution of sets; creation of lighting design for various theatrical effects; creation of lighting plots; care, maintenance, hanging, focusing, patching in and gelling of lights; preparation of sound plots and sound cues; research and preparation of costume plots, and costume production. Students will also learn about scene shop organization and safety, and about the various technical theatre positions available, from Front of House Management to Stage Management. Honors participation involves time beyond the normal school day.

141. ADV. THEATRE ARTS

5 credits

142. HONORS ADV. THEATRE ARTS

5 credits

Prerequisite: Introduction to Theatre Arts or participation in at least three Company shows (or equivalent).

This course continues to train students in aspects of technical theatre, performance, and direction. Students will do advanced script analysis, study of subtext, characterization, voice and movement study, monologue and scene work, including period literature and direction of other students. Participation involves performance time beyond the normal school day. Level placement is decided by agreement between student and instructor.

SCREENWRITING & FILMMAKING

5 credits

In this two-part, collaborative course, students will spend one quarter learning how to develop and write a screenplay (Screenwriting); the second working as a team to produce a finished quality film (Narrative Filmmaking):

876. SCREENWRITING (Quarter One)

Screenwriting Fundamentals is designed to equip students with the basic theory and structure of screenwriting so that they may mold their story ideas into a professional product designed for the screen. Emphasis is upon the literary conventions of the form – character, conflict, plot, dialogue – as well as the technical elements which make scripts and screenwriting unique. Upon completion of this section, students will have conceived, developed, and crafted their own original idea into a professional screenplay.

878. NARRATIVE FILMMAKING (Quarter Two)

Students will move to Narrative Filmmaking, where they work as a team to produce a film from one of the screenplays generated in the screenwriting portion of the course. Focus is placed on understanding the complexity of creating a film, and the various roles individuals play as part of a single production. Students will learn about storyboarding, production design, camera operation, cinematography, continuity, coverage, sound and editing, assuming these different roles in turn throughout the process.

FOREIGN LANGUAGES

	<u>HONORS</u>	<u>COLLEGE PREP L2</u>	<u>COLLEGE PREP L1</u>
Grade 9	Honors French 1 Honors Spanish 1	French 1 Spanish 1	
Grade 10	Honors French 2 Honors Spanish 2	French 2 Spanish 2	
Grade 11	Honors French 3 Honors Spanish 3	French 3 Spanish 3 or 4	
Grade 12	Honors French 4 Honors Spanish 4	French 4 Spanish 4 or 5	

All foreign language courses stress the four language skills of listening comprehension, reading comprehension, writing (composition) and speaking.

* To maintain honors status, a student must achieve a “B “ in an honors course.

** To upgrade to an honors class, a student must 1] have achieved an “A-“ in his/her current course for each quarter and the exam, 2] earned a teacher recommendation and 3] be willing to commit to independent study to make up deficiencies in background.

FRENCH

300. FRENCH 1

5 credits

Designed for students with above-average reading and writing skills.

An introduction to French with an emphasis on speaking. Students will engage in a variety of activities to explore basic topics of conversation including socializing, exchanging information and meeting daily needs.

301. HONORS FRENCH 1

5 credits

Designed for students with high reading speed and comprehension skills as well as above average writing ability.

An introduction to French with an emphasis on speaking. Students will engage in a variety of activities to explore basic topics of conversation including socializing, exchanging information and meeting daily needs. Honors students will explore various additional topics independently.

302. FRENCH 2

5 credits

A continuation of French 1 with emphasis on speaking and writing. Students will explore topics of the world around them including activities, home, shopping, and going to restaurants.

303. HONORS FRENCH 2

5 credits

A continuation of Honors French 1 with emphasis on speaking and writing. Students will learn at a lively pace and explore topics of the world around them including activities, home, shopping, and going to restaurants. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations.

304. FRENCH 3

5 credits

Students will continue to learn how to function in a variety of situations in which French may be spoken including ordering in a restaurant and visiting a department store. Students will study French culture including such topics as festivals and celebrations and children's stories; these topics will be compared to our own lives.

305. HONORS FRENCH 3

5 credits

A more advanced course in French where students will learn how to function in a variety of situations in which French may be spoken including ordering in a restaurant and visiting a department store. Students will study French culture including such topics as festivals and celebrations and children's stories; these topics will be compared to our own lives. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations.

306. FRENCH 4

5 credits

An advanced course in French emphasizing a more sophisticated manner of speaking and writing. Topics will include a study of Haiti, Canada and medieval France.

307. HONORS FRENCH 4

5 credits

An advanced course in French emphasizing a more sophisticated manner of speaking and writing. Topics will include a study of Haiti, Canada and medieval France. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations.

SPANISH

315. SPANISH 1 - COLLEGE PREP L2

5 credits

Designed for students with above-average reading and writing skills.

A basic, introductory level course designed for students who need a hands-on approach to language learning. A variety of activities and materials are used in instruction. Topics include social interactions, self, activities, and school.

316. HONORS SPANISH 1

5 credits

Designed for students with high reading speed and comprehension skills as well as above average writing ability.

A basic, introductory level course designed for students who need a hands-on approach to language learning. A variety of activities and materials are used in instruction. Topics include social interactions, self, activities, and school. Honors students will explore various additional topics.

318. SPANISH 2 – COLLEGE PREP L2

5 credits

Prerequisite: Spanish 1 (315).

Continued development of communication skills in Spanish through speaking, reading, writing, and listening comprehension. Language topics include personal descriptions, leisure activities, body & health, clothing, and the home. Emphasis is on classroom participation with a variety of assessments including tests, oral and written projects, and homework.

319. HONORS SPANISH 2

5 credits

Continued development of skills in Spanish through speaking, reading, writing, and listening comprehension. Students will learn at a lively pace and explore topics of the world around them including personal descriptions, leisure activities, body & health, clothing, and the home, as well as a review of topics covered in Spanish 1. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations.

320. SPANISH 3

5 credits

Students will continue to learn how to function in a variety of situations in which Spanish may be spoken including ordering in a restaurant and visiting a department store. Students will study Spanish culture including such topics as travel and tourism.

321. HONORS SPANISH 3

5 credits

A more advanced course in Spanish where students will learn how to function in a variety of situations in which Spanish may be spoken as it relates to the lives of students. Students will examine Spanish culture including such topics as festivals and celebrations, travel and tourism and other topics include childhood and various activities relating to youth; these topics will be compared to our own lives. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations.

322. SPANISH 4

5 credits

An advanced course in Spanish emphasizing more sophisticated speaking and writing. Topics will include: autobiography, pastimes, directions and games, childhood, fairytales and biographies of famous Hispanics.

323. HONORS SPANISH 4

5 credits

An advanced course in Spanish emphasizing a more sophisticated manner of speaking and writing. Besides regular homework, students will be required to do some independent research and to prepare multimedia presentations. The class will focus on further development of language skills through personalization of vocabulary, authentic readings, independent listening, internet activities and writing portfolios.

324. SPANISH 5

5 credits

An advanced course in Spanish emphasizing more sophisticated speaking and writing. Students will converse, read, write and listen to Spanish on a variety of topics using various tenses. The class will focus on interpersonal communication with proficiency. A variety of grammatical structures will be presented and reviewed in order to achieve the ability to communicate ideas that are easily understood by native speakers.

325. HONORS SPANISH 5

5 credits

This course is offered to students wishing to continue their study of Spanish at the honors level. Students will converse, read, write and listen to Spanish on a variety of topics using a variety of tenses. The class will focus on developing accuracy in communication and the acquisition of vocabulary. Many basic grammatical structures will be reviewed for mastery, and new structures will also be presented. Students will be asked to do homework regularly.

326. ADVANCED PLACEMENT SPANISH

7 credits

Prerequisite: Successful completion of Honors Spanish 4 with a grade of A- or better.

The Advanced Placement course is designed for students who wish to study and learn the finer points of Spanish grammar and greatly improve their ability to communicate accurately in Spanish on a variety of topics using a variety of tenses and grammatical structures. Besides regular homework, students are expected to involve themselves in intense independent study

in order to strengthen weaknesses and review materials previously taught in order to succeed in the class and on the CEEB Advanced Placement Test.

327. MUCH LATIN, LESS GREEK

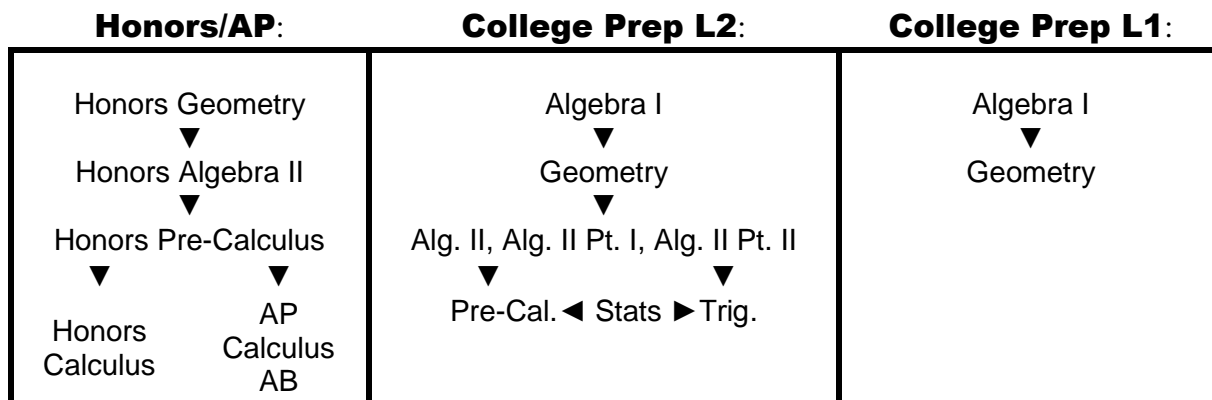
2.5 credits

A study of thematic vocabulary in Latin and Greek (numbers, people, colors, body, etc.) with the aim of enhancing the student's English vocabulary. A study of mythology and religion, historical persons and events, place names, and other factors that have influenced the English lexicon. Students on honors contracts will read extensively in the classics and prepare presentations on how other languages have added to the vocabulary of English.

MATHEMATICS

Mathematics courses are differentiated by levels of difficulty and prerequisite mathematics performance. In order to avoid limiting student choice, student performance in prior courses guides students to appropriate level courses. When a student earns an A in the prerequisite course, they earn the option to move up to another sequence or stay in the current sequence. This method maintains the academic rigor and rewards students who perform well.

Core Math Sequences:



*Electives:

Grade 9 or Above: Mathematics in Art

Passed/Taking Algebra II: Computer Programming ▶ AP Computer Science ▶ CS ISP

Grade 11 or Above: Accounting I ▶ Accounting II

Grade 11 or Above: Banking

Grade 10 or Above: SAT Prep

*These elective courses do not count toward the core mathematics requirement.

403. ALGEBRA I – COLLEGE PREP L1

5 credits

This course will acquaint students with a basic college preparatory Algebra I course. They will study patterns, operations, exponentials, absolute value and inequalities, probability and statistics, polynomials and factoring, solve linear equations, systems of equations and inequalities. Appropriate use of technology is stressed and utilized throughout the course.

404. ALGEBRA I – COLLEGE PREP L2

5 credits

This is a more intense college preparatory course for students with good mathematical aptitude for real numbers and their properties and an interest in mathematics. The concepts studied are similar to those for Algebra I College Prep L1, but explored in greater depth and include further study of quadratics. Appropriate use of technology is stressed and utilized throughout the course.

405. GEOMETRY – COLLEGE PREP L1

5 credits

Prerequisite: Algebra I teacher recommendation (passing grade).

The design of fundamental geometry is to study concepts of Euclidean geometry with less emphasis on formal proofs. Use of technology to investigate, explore, and develop conjectures. Students will have direct applications of problems dealing with points, lines and angles, triangles, polygons, circles, areas and volumes of polygons and solids and coordinate geometry. Students will be proficient in the appropriate use of compasses, protractors and straight edges.

406. GEOMETRY – COLLEGE PREP L2

5 credits

This is a more intense study of Euclidean geometry. Much time is devoted to deductive reasoning, angle relationships, perpendicular and parallel, lines and planes, congruent and similar triangles, circles, arcs, and angles, coordinate geometry methods, areas and volumes of solids are mastered. These topics are aimed at developing a solid background in logical inquiry. Technology is used to investigate, explore, and develop conjectures.

407. HONORS GEOMETRY

5 credits

This is an accelerated course designed to provide students with a solid background in Euclidean geometry with time devoted to formal proofs. Proofs are aimed at developing a solid background in logical inquiry. Major topics include: angle relationships, perpendicular and parallel lines and planes, congruent and similar triangles, circles, and polygons, areas and volumes. Technology is used to investigate, explore, and develop conjectures.

408. ALGEBRA II

5 credits

This course reviews the essential topics of Algebra I and covers, in depth, such concepts as: linear equations and functions, direct and inverse variations, polynomials, fractional equations, complex and real numbers, quadratic equations and functions, exponential logarithmic functions, and matrices. All these topics are approached through real-world applications and mathematical modeling incorporating the use of graphing calculators.

409. ALGEBRA II - PART I

5 credits

Prerequisite: Geometry College Prep L1 (passing grade) or 404 (passing grade)

This is a part of a two-year study of Algebra II. The pace of this course allows for an in-depth connection of algebra to the real world. Math concepts will be explored by the students through

the use of technology. Matrices, systems of equations, quadratic functions, powers, roots and exponents are some of the topics covered.

410. ALGEBRA II – PART 2

5 credits

Prerequisite: Algebra II Part I (passing grade).

This is the second part of the Algebra II course exploring quadratic functions, complex and real numbers, fractional equations and continued study of exponents and logarithms. These topics are studied through real-world application and modeling.

411. HONORS ALGEBRA II

5 credits

Prerequisite: Honors Geometry (B or above in 407)

This course is an in-depth study of functions, direct and inverse variation, linear equations, fractional equations, quadratic functions, quadratic equations, complex and real numbers, exponential and logarithmic functions and matrices. Graphing calculators allow the student to explore and solve real-world problems and to connect their solutions to similar situations.

412. TRIGONOMETRY

5 credits

This course is designed for juniors and seniors. Topics are introduced through a circular and triangular approach. Topics covered are identities, graphing, solving triangles, trig equations, sum and difference formulas, double and half-angle formulas, inverses and laws of sines and cosines. As time permits, complex numbers and exponential and logarithm functions are introduced. Real life applications are presented throughout the course.

414. PRE-CALCULUS

5 credits

An advanced course that utilizes technology to explore functions and graphing. Topics covered include: conic sections, polynomial functions, rational functions, exponential and logarithmic functions, trig functions, complex numbers and parametric and polar equations. Continuity, limit theory, rate of change, derivation and applications are explored as time allows.

415. HONORS PRE-CALCULUS

5 credits

Prerequisite: Honors Algebra II (411) and Honors Geometry (407) (B or above in both).

This course combines an in-depth study of advanced Algebra II and Trigonometry. The student will be required to apply concepts to a variety of real world situations such as physics, business, economics, natural phenomena etc. Topics include exponential and logarithmic functions, complex numbers, polynomials, solving and graphing trigonometric functions, degree and radian measure, trig identities, solutions and cosines. A study of asymptotic behavior, limit theory, and continuity will be covered as time allows.

416. HONORS CALCULUS

5 credits

Prerequisite: Honors Pre-Calculus (B- or above).

The primary focus of the course is to develop an intuitive understanding of the concepts of calculus and experiment with its methods and applications. A brief review of pre-calculus topics is followed by intensive study of differentiation and integration of algebraic functions. The concepts include properties of functions, limits, derivatives, techniques of integration, the definite integral and applications of the integral. Emphasis throughout the course is on the student's ability to use calculus as a tool for solving a variety of problems from fields such as economics, physics, chemistry and biology.

417. ADVANCED PLACEMENT CALCULUS AB

7 credits

Prerequisite: Honors Pre-Calculus (B or above) and department head recommendation.

This course follows the Advanced Placement syllabus issued by the College Board each year. Students are required to take the AP exam. The AB syllabus is the equivalent of one semester of college calculus.

420. HONORS COMPUTER PROGRAMMING

5 credits

Prerequisites: Completed Algebra II (B or above) or concurrently taking Algebra II (with instructor's approval), and English (B or above).

This course develops problem solving skills through computer programming. Students will examine mathematical topics such as binary and hexadecimal number representations, networks, and Boolean logic. Students will create web sites with HTML, Cascading Style Sheets, and JavaScript implementing design principles. Students gain introductory experience programming in the Java language, with focus on data types and control flow. This course prepares students who intend to take the AP Computer Science course.

422. AP COMPUTER SCIENCE A

7 credits

Prerequisite: MA420 Computer Programming or equivalent VHS course

Students are required to take the AP exam if seeking AP credit for this course. Check with your particular college of interest about their AP CS requirements, as acceptance may vary.

This course follows the Advanced Placement® syllabus issued by the College Board each year and is implemented in the Java language. Current topics include object-oriented principles (abstraction, encapsulation, inheritance and polymorphism), arrays, searching, sorting, and recursion. Themes include communicating through documentation, reusability of code, and socio-ethical aspects of computing. As time permits, students may explore applets, GUIs, and additional data structures. *This course will meet daily during one semester and weekly during Directed Study another semester.*

423. INDEPENDENT STUDY IN COMPUTER SCIENCE

5 credits

Prerequisites: MA420 AP Computer Science A or approval by instructor

Independent Study is available to students for elective credit. Students will work with the instructor to refine the syllabus and assignments. Potential languages include Java, C++, JavaScript, Perl, Python, and Visual Basic .net. Topics may include text and file processing, network programming, GUI development, linked lists, stacks, queues, and trees, human-computer interaction (HCI), or other branches of computer science. *Please note that no AP credit will be awarded, per College Board requirements.*

424. MATHEMATICS IN ART

2.5 credits

This elective course is designed to provide students of all math abilities with the opportunity to explore, investigate, apply and experience the impact of mathematics in the world of art. The student does not need to have a strong ability in the arts. The course is a series of projects to include, but not limited to, the Golden Rectangle, string art, symmetry in nature, tiling and tessellations, scale drawings and figures, architecture (St. Louis Gateway Arch, Choate Bridge stone arch, the Great House at Castle Hill, etc.), optical illusions, perspective drawing, origami, factials, geodesic design and mobiles. The student will work independently and be evaluated by a well-defined student-teacher developed rubric for each project.

425. ACCOUNTING I

2.5 credits

Open to grades 11-12

Accounting I gives students an opportunity to learn the fundamental principles of double-entry accounting. The student learns to journalize, post, take trial balance and prepare work sheets and financial reports. Manual and computer problems are completed to reinforce and master these concepts. Practice sets are also used to help students apply the principles learned. The course is recommended for all students going on to further education in business, as well as students who will seek employment after graduation.

427. BANKING AND PERSONAL FINANCE

2.5 credits

Open to grades 11 & 12

This course is for students who have an interest in learning how to manage their personal finances and in working at the school branch of the Institution for Savings. Students will rotate working at the bank where they will learn what goes on behind the counter and how to transact various banking services. Class time will cover personal finance topics such as checking and savings accounts, investments, budgeting, credit cards, insurance, loans, current events in finance and other topics.

430. STATISTICS

5 credits

This course is designed for the junior or senior with a solid background in mathematics who wishes to study applied statistics. The course will provide the student with opportunities to be involved in the mathematics of collecting, analyzing, presenting and interpreting data to make good decisions using real-world applications. Many college courses of study require some component of statistics.

432. SAT MATH PREP

2.5 credits

A quarter course of intensive preparation for taking the math section of SAT-1 and SAT-2. It reviews key concepts in arithmetic, algebra and geometry concepts and provides students with adequate practice time with feedback. The course is highly recommended for most juniors and seniors serious about scoring well on both the exams.

SCIENCE

Students are required to take three or four science courses in order to graduate. Students considering careers in pure or applied sciences should consider taking more than the required science courses during their junior and senior years. For those students interested in engineering or computer science, a course in Physics would be recommended. For students interested in careers in medicine, Anatomy and another Biology or Chemistry course are recommended. Students should consult with their guidance counselor and/or science teacher to be sure that their science electives meet their specific needs.

	Honors/AP	College Prep L2	College Prep L1
Grade 9	Honors Biology I	Biology I	Biology I
Grade 10	Honors Chemistry I	Chemistry I	Chemistry I
Grade 11	AP Biology Honors Biology II Honors Physics I AP Chemistry Honors Chemistry II Honors Chemistry II	Physics I Anatomy Earth and Space Science Environmental Science Marine and Coastal Science Forensics/Criminology (2.5 Science)	
Grade 12	AP Physics II Honors Physics II Any of the above courses	Any of the above courses	

501. BIOLOGY I – COLLEGE PREP L1

5 credits

This is a basic college preparatory biology course. The course will cover the following topics: biochemistry, the cell, several human systems, cell respiration, photosynthesis, cell division, genetics, evolution, and ecology.

502. BIOLOGY I – COLLEGE PREP L2

5 credits

This course is designed for the student who has an interest in the marine world and its interactions with the coast. Topics include: properties of sea water, marine geology, plate tectonics, physical oceanography, ocean resources, coastal and wetland management, and a survey of life in the sea. Students will participate in a variety of hands-on activities and field trips to various sites in our local area.

503. HONORS BIOLOGY I

5 credits

This class is similar to Biology I but moves at a faster pace, contains more complex topics and covers them in greater depth than Biology I. It is geared for students interested in pursuing a career involving science.

504. HONORS BIOLOGY II

5 credits

Prerequisites: Honors Biology and Chemistry with a B or better, or Biology and Chemistry with an A- or better, and department approval.

This course is designed to give the advanced student of biology an in-depth understanding of the following topics: cell chemistry, cell structure and function, cellular metabolism, heredity, and molecular genetics. Labs, seminars, and projects are integral parts of this experience.

505. A.P. BIOLOGY

7 credits

Prerequisites: Honors Biology and Chemistry with a B or better, or Biology and Chemistry with an A- or better, and department approval.

This course is designed to give the advanced student of biology an in-depth understanding of the following topics: cell chemistry, cell structure and function, cellular metabolism, heredity, and molecular genetics. Labs, seminars, and projects are integral parts of this experience.

Students taking AP Biology will continue to meet weekly in the second semester to address the following topics: evolution, diversity of organisms, structure and function of plants, and animal systems. The work of both semesters will culminate with the AP Biology exam. Students will meet once a week after the course has finished and are required to take the A.P. examination in Biology.

506. CHEMISTRY I – COLLEGE PREP L1

5 credits

Prerequisites: Biology I

This is a basic college preparatory chemistry course. This course will cover the following topics: structure of the atom, the periodic table, compounds, ionic and covalent bonding, chemical reactions, and the mole. Lab activities and projects will reinforce the topics covered.

507. CHEMISTRY I – COLLEGE PREP L2

5 credits

Prerequisites: Biology I

This is a more intense college preparatory chemistry course for students with a high interest in the sciences. Students will study concepts such as structure of the atom, the periodic table, compounds, ionic and covalent bonding, chemical reactions, and the mole.

508. HONORS CHEMISTRY I

5 credits

Prerequisites: Honors Biology I with a B or better, or Biology I with an A- and department approval.

This course is more mathematical than Chemistry I. Metric conversions, scientific notation, mole conversions, and algebra problems are presented throughout the course. Students will study concepts such as structure of the atom, the periodic table, compounds, ionic and covalent bonding, chemical reactions, the mole, gas laws, and stoichiometry.

509. HONORS CHEMISTRY II

5 credits

Prerequisites: Honors Biology and Chemistry with a B or better, or Biology and Chemistry with an A- or better, and department approval.

This course is equivalent to a college introductory course in chemistry and builds upon the topics covered in the introductory high school sophomore chemistry course through more advanced theory and themes. Topics include laboratory techniques and data analysis with strong emphasis on problem solving, calorimetry, electrochemical cells, thermodynamics, liquid phase chemistry, and introduction to organic chemistry.

510. A.P. CHEMISTRY

7 credits

Prerequisites: Honors Biology and Chemistry with a test average of A- or better, or Biology and Chemistry with an A- or better, and department approval.

This course is the equivalent of a freshman college course in chemistry. The course deals with advanced topics in chemistry, with a strong emphasis on laboratory work and problem solving. Topics include laboratory techniques and data analysis with strong emphasis on problem solving, calorimetry, electrochemical cells, thermodynamics, liquid phase chemistry, and introduction to organic chemistry. Students will meet once a week after the course has finished and are required to take the A.P. examination in Chemistry.

511. PHYSICS I

5 credits

Prerequisites: Biology and Chemistry with a C or better and Geometry and Algebra II with a C or better.

This course is designed for juniors and seniors interested in pursuing a challenging college preparatory curriculum and learning about applications in physics. Topics covered in the

course will include mechanics, simple harmonic motion, thermodynamics, rotational dynamics, gravity, satellite motion, electricity and magnetism and modern physics. This course will be taught in alignment with the Massachusetts State Frameworks.

512. HONORS PHYSICS I

5 credits

Prerequisites: Honors Biology and Chemistry with a B or better, Honors Algebra II with a B or better, and department approval.

This is an in-depth physics class recommended for juniors and seniors who are pursuing a challenging college preparatory curriculum and considering studying science, math or engineering as a major in college. Topics included in the course are mechanics, wave theory, optics, thermodynamics, electricity, magnetism and modern physics.

513. HONORS PHYSICS II

5 credits

Prerequisites: B or better in Honors Physics 1 or Physics 1. Students not having any Physics experience must present evidence of strengths in Science and Math and receive approval of the instructor.

This is an intensive project-based course in Physics which requires students to use the scientific method and apply their knowledge of physics to a solution that will benefit society. Students will choose to deepen their experience in a specific area of physics.

514. A.P. PHYSICS

7 credits

Prerequisites: Honors Biology and Chemistry with a B+ or better, or Biology and Chemistry with an A- or better. Honor Pre-calculus with a B+ or better.

This course is the equivalent of a two semester freshman college course in physics. The course covers the following topics: kinematics, Newton's laws of motion, energy, momentum, rotational motion, electrostatics, capacitance, electric circuits, magneto statics, electromagnetism, thermodynamics, hydrostatics, fluid dynamics and modern physics. Students will meet once a week during the off semester and are required to take the A.P. examination in Physics.

522. EARTH AND SPACE SCIENCE

5 credits

Prerequisites: Biology and Chemistry (Honors contract is available for students who have passed honors classes with a B, or passed college level classes with an A-, and department approval).

This course is designed to examine the workings of the universe and the earth, looking for similarities in how they function and how each affects the other. Students will become aware that the various "spheres" are always interacting. Students will also investigate advances in earth and planetary exploration and examine the findings to develop understandings of how the earth works. The course will involve students in hands on-activities, independent work, group work and presentations. Course topics include: geology, natural resources, astronomy and meteorology.

524. MARINE AND COASTAL SCIENCE

5 credits

Prerequisites: Biology and Chemistry (Honors contract is available for students who have passed honors classes with a B, or college level with an A-, and department approval).

This course is designed for students who have an interest in the marine world and its interactions with the coast. The course will involve students in hands-on activities, independent work, group work and presentations. The course encourages students to be aware of marine issues and the responsibilities as citizens. The goal of this course is for students to learn and apply the skills of observation and analysis necessary to become citizens who make good, informed choices. The topics studied during the course include: marine biology (different marine ecosystems, different marine organisms), physical oceanography, coastal processes, fisheries management, and stewardship.

526. ANATOMY

5 credits

Prerequisites: Biology and Chemistry (Honors contract is available for students who have passed honors classes with a B, or college level classes with an A-, and department approval).

This course will give students an understanding of the structure and function of the human body. It will cover, in depth, the major body systems such as the muscular, nervous, circulatory, endocrine and reproductive. Laboratory exercises are included along with the possibility of dissecting an organism.

530. ENVIRONMENTAL SCIENCE

5 credits

Prerequisites: Biology and Chemistry (Honors contract is available for students who have passed honors classes with a B, or passed college level classes with an A-, and department approval).

This course will include the study of aquatics, forestry, wildlife and human effects on the global ecosystem. The course will involve the students in many hands-on activities and field trips to various sites in our local area. The course will culminate with a project that connects the students in some way with a community issue.

250/251(H). Forensic Science Criminology

5 credits

Dual Listing as Science and Social Studies Department (2.5 credits from each department)

Prerequisite: Successful completion of chemistry with a minimum grade of C. Open to Juniors and Seniors. Please note that this course does not count towards the core requirement in social studies or science.

In this course, offered jointly by the Social Studies and Science departments, students will explore criminal justice theories and examine forensic science. Utilizing statistics, characteristics of criminal behavior, chemistry, biology and other scientific fields of study, students will apply the core knowledge of the course to actual cases. Students will become skilled at such analytical methods as securing crime scenes, collecting and preserving evidence, fingerprinting, and DNA analysis. This course will cover the various biological,

psychological, and sociological aspects of crime in U.S. society. Students will be provided with an ability to perform basic forensic techniques and use appropriate scientific procedures that follow established guidelines for admissible evidence. Students will document results and draw conclusions employing criminology and forensic science terminology. Students will explore such topics as juvenile justice and capital punishment. Within a laboratory setting, students will gain hands-on experience in the use of current investigative techniques. Participating in a mock crime scene and trial will be the capstone project for the course. Students who have taken the Criminal Justice course are also eligible to enroll in this

SOCIAL STUDIES

	<u>HONORS/AP</u>	<u>COLLEGE PREP L2</u>	<u>COLLEGE PREP L1</u>
Grade 9	Honors US History I	US History I	US History I
Grade 10	Honors U.S. History II (1860-Present)	U.S. History II (1860-Present)	U.S. History II (1860-Present)
Grade 11	Honors Modern World History AP US History	Modern World History	
Grade 12	Honors American Government and a Social Studies Elective or A.P. U.S. History	American Government and a Social Studies Elective	

Electives: (2.5 credits)

Psychology
Abnormal Psychology
Criminal Justice
Facing History and Ourselves
Middle Eastern Studies
Military History
Modern Europe

Criminology/Forensics
Famous Figures in History
History Goes to the Movies
The Vietnam War Experience

All elective courses are available for honors credit through the completion of an honors contract approved by the course teacher and with the recommendation of the student's most recent Social Studies teacher.

Community Service is required of all junior students and is administered by the Social Studies Department. See the course description below for details.

202. U.S. HISTORY I -- COLLEGE PREP L1

5 credits

Designed for students with average reading and writing skills.

Students will study the development of Britain's colonies in North America, their inheritance of Enlightenment ideas, and the influence of these ideas upon the founding fathers of the United States. Students continue the development of the United States from the first colonies through the Civil War. Special attention will be given to the development and implementation of the Constitution and the first ninety years of independence. Special consideration will be given to the ideals and actions that led to early unity while at the same time driving the country toward regionalism and Civil War.

203. U.S. HISTORY I – COLLEGE PREP L2

5 credits

Designed for students with above-average reading and writing skills.

Students will study the development of Britain's colonies in North America, their inheritance of Enlightenment ideas, and the influence of these ideas upon the founding fathers of the United States. Students continue the development of the United States from the first colonies through the Civil War. Special attention will be given to the development and implementation of the Constitution and the first ninety years of independence. Special consideration will be given to the ideals and actions that led to early unity while at the same time driving the country toward regionalism and Civil War.

204. U.S. HISTORY I – HONORS

5 credits

Designed for students with high reading speed and comprehension skills as well as above average writing ability.

Students will study the development of Britain's colonies in North America, their inheritance of Enlightenment ideas, and the influence of these ideas upon the founding fathers of the United States. Students continue the development of the United States from the first colonies through the Civil War. Special attention will be given to the development and implementation of the Constitution and the first ninety years of independence. Special consideration will be given to the ideals and actions that led to early unity while at the same time driving the country toward regionalism and Civil War.

205. US HISTORY II (1860-PRESENT) COLLEGE PREP L1

5 credits

Designed for students with average reading and writing skills.

A continuation of US History I, students will continue their journey through the history of the United States from the end of the Civil War through the modern day. Beginning with Reconstruction, they will discover the success and trials of the modern era. Topics include expansion, industrialization, American Imperialism, the world wars, the Cold War era, and the present day, ending with the attacks of September 11, 2001 and America's responses.

206. US HISTORY II (1860-PRESENT) COLLEGE PREP L2.

5 credits

Designed for students with above average reading and writing skills.

A continuation of US History I, students will continue their journey through the history of the United States from the end of the Civil War through the modern day. Beginning with Reconstruction, they will discover the success and trials of the modern era. Topics include expansion, industrialization, American Imperialism, the world wars, the Cold War era, and the present day, ending with the attacks of September 11, 2001 and America's responses.

207. HONORS US HISTORY II (1860-PRESENT)

5 credits

Designed for those students with high reading speed and comprehension skills, and strong writing skills.

Prerequisite: A grade of A- or above in US History I or a B or above in Honors U.S. History I and the recommendation of the US History I teacher.

A continuation of US History I, students will continue their journey through the history of the United States from the end of the Civil War through the modern day. Beginning with Reconstruction, they will discover the success and trials of the modern era. Topics include expansion, industrialization, American Imperialism, the world wars, the Cold War era, and the present day, ending with the attacks of September 11, 2001 and America's responses.

208. MODERN WORLD HISTORY

5 credits

This course will examine topics in world history from 1848 through the present. It will develop an understanding of the forces of the forces of history that led to the dominance of Europe during the nineteenth and early twentieth centuries, the development of Asia, particularly China and Japan, and the emergence of our contemporary world. Students will use their knowledge of events studied in United States History to gain a wider perspective of modern world events. A partial list of the topics studied is the development of nationalism, the World Wars, the creation of superpowers, the Cold War, and the spread of terrorism in the twentieth century.

209. HONORS MODERN WORLD HISTORY

5 credits

Designed for those students with high reading speed and comprehension skills, and strong writing skills.

Prerequisite: A grade of A- or above in US History II or a B or above in Honors U.S. History II and the recommendation of the US History II teacher.

This course will examine topics in world history from 1848 through the present. Students will develop an understanding of the forces of history that led to the dominance of Europe during the nineteenth and early twentieth centuries, the development of Asia, particularly China and Japan, and the emergence of our contemporary world. Students will use their knowledge of events studied in United States History to gain a wider perspective of modern world events. A partial list of the topics studied includes the development of nationalism, the World Wars, the creation of superpowers, the Cold War, and the spread of terrorism in the twentieth century.

210. MODERN EUROPE

2.5 credits

This course will focus on the social, economic, political, and intellectual developments in Europe from the beginning of the Cold War to the present day. Students will discuss practical questions about the forces that have shaped Europe since the end of World War II. Particular attention will be paid to the disintegration of the Soviet Union, efforts to build a European Union, and the role of modern European nations in a rapidly changing world. In addition, students will explore Europe's quest for international security in the emergence of the nuclear age. While investigating broader issues, the course will also draw attention to localized European issues, including civil war in Bosnia, the troubles in Northern Ireland, and other events that have impacted Europe since 1945

212. CRIMINAL JUSTICE

2.5 credits

In this course, students will examine the social science of criminology. The course will incorporate materials for studying crime, criminals, criminal behavior, and corrections. Utilizing criminal justice statistics, current conceptual theories, and a wide array of primary sources, students will explore the history of criminology and how criminologists influence the world around us. Students will evaluate social patterns to identify trends of crime in the United States. After developing the framework of criminology, the course will include topics related to the impact of crime on victims and methods for applying statistical data in crime prevention, and ways to prevent crime. Ultimately, students will identify the forces that cause crime and develop a model for applying criminological theories to modern day issues.

214. MIDDLE EASTERN STUDIES

2.5 credits

This course will explore the history, culture, politics, and economics of the Middle East from 1850 to the present. Students will explore several historical topics through primary and secondary resources. Topics include: the role of religion in the region's history; the role of oil and other economic issues in the development of the modern middle-east; Pan-Arab movements, foreign involvement in the region since the decline of the Ottoman Empire; the role of the Zionist movement and the formation of Israel; the wars and conflicts in the region since 1947; and recent developments in the region.

216. FACING HISTORY AND OURSELVES

2.5 credits

Students will examine the roots of hate and acts of hatred in an attempt to understand history not as a series of inevitable events, but as a sequence of events resulting from individual actions and decisions through time. Students will examine their roles and responsibilities as American and global citizens and the potential for the wide reaching impact that every individual has daily. These themes will be examined through a series of readings, videos, activities and reflections. Activities will incorporate technology, include guest speakers and enable students to demonstrate expertise through a wide array of projects. The foundation of the course will be historical case studies of the genocides in Armenia, Cambodia, Bosnia, Rwanda, Sudan, and the Holocaust. By examining acts of genocide, students will have the opportunity to reflect not only upon the universality of racism and social injustice, but also upon the importance of global awareness. Students may take the course for honors credit.

220. MILITARY HISTORY

2.5 credits

The major goal of this course is to provide the student with a framework for analyzing past, present and future military events and institutions. The secondary goal of this course is to introduce the student to significant events and developments related to military history that have had an impact on shaping the present.

222. PSYCHOLOGY I

2.5 credits

A survey of psychology through its theories and theorists. The course features studies of the nervous system, states of emotional growth, perception, learning, intelligence and dream theories, personality and personality disorders. Students will be required to prepare a major project or paper as a part of the course.

224. PSYCHOLOGY II

2.5 credits

Prerequisite: Successful completion of Psychology and the recommendation of the teacher.

The objective of this course is to offer students greater insight and knowledge into the various areas of abnormal psychology including: addiction, stress, depression, schizophrenia, anxiety, organic and behavior disorders.

228. AMERICAN GOVERNMENT

2.5 credits

The goal of this course is to make students aware of the general functioning of government at the local, state and national levels and how students may assume an active role as citizens. Responsible citizenship and decision –making processes will be emphasized.

229. HONORS AMERICAN GOVERNMENT

2.5 credits

Prerequisite: A grade of B or higher in most recent Social Studies course and the recommendation of the Modern World History teacher.

In addition to the requirements of Political Science, this course requires the reading and analysis of additional primary and secondary source readings, and additional research.

230. ADVANCED PLACEMENT U.S. HISTORY

7 credits

Prerequisite: A- average in the latest Social Studies course and approval by the Social Studies Department faculty. Students must complete an application available from the Department Head for submission to the Social Studies Department with your course selection sheet no later than the due date.

This course is designed as a college level course to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials of United States history. Students will be prepared to enter college prepared for intermediate and advanced college courses. Students will learn to assess historical materials — their relevance to a given interpretive problem, their reliability and their importance — and to weigh the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informal judgment and to present

reasons and evidence clearly and persuasively in essay format. Students are required to take the Advanced Placement U.S. History examination.

COMMUNITY SERVICE

1 credit

All students will complete an approved Community Service Project during their **junior year**. Introduced during the last quarter of a student's sophomore year, these projects will be a minimum of 25 hours in duration. **ALL** projects must be approved in advance by the sophomore or junior teacher in writing. Projects will be administered by the student's Modern World History teacher. Projects will be graded on a Pass/Fail basis.

250/251(H). Criminology Forensic Science

5 credits

Dual Listing as Science and Social Studies Department (2.5 credits from each department)

Prerequisite: Successful completion of chemistry with a minimum grade of C. Open to Juniors and Seniors. Please note that this course does not count towards the core requirement in social studies or science.

In this course, offered jointly by the Social Studies and Science departments, students will explore criminal justice theories and examine forensic science. Utilizing statistics, characteristics of criminal behavior, chemistry, biology and other scientific fields of study, students will apply the core knowledge of the course to actual cases. Students will become skilled at such analytical methods as securing crime scenes, collecting and preserving evidence, fingerprinting, and DNA analysis. This course will cover the various biological, psychological, and sociological aspects of crime in U.S. society. Students will be provided with an ability to perform basic forensic techniques and use appropriate scientific procedures that follow established guidelines for admissible evidence. Students will document results and draw conclusions employing criminology and forensic science terminology. Students will explore such topics as juvenile justice and capital punishment. Within a laboratory setting, students will gain hands-on experience in the use of current investigative techniques. Participating in a mock crime scene and trial will be the capstone project for the course. Students who have taken the Criminal Justice course are also eligible to enroll in this course.

252/253(H). Famous Figures in History

2.5 credits

This course will focus on figures in history that have made a difference in the way that we live our lives. From the dark charisma of Jim Jones, to the inspirational music of John Lennon, to the bravery of the passengers on flight 93, and the activism of Abbie Hoffman, each person left a mark on history. An understanding of other people's perspectives, decisions, triumphs, and mistakes can help students to gain some perspective into their own lives. This class will follow the format of *Time* magazine's 100 most influential list, covering a rotating roll call of those who have had an impact, good or bad, big or small. The course will be broken down into the following categories: leaders and revolutionaries, heroes and icons, trailblazers and pioneers, villains and scoundrels, artists and entertainers, and mysteries and enigmas. The goal is for students to acquire an historical framework through which he/she can better understand their own lives and futures.

254/255(H). History Goes to the Movies

2.5 credits

Since the introduction of the motion picture the debate over the merits of film as a means of expressing the past has raged between filmmakers and historians. History Goes to the Movies is intended to provide students with the necessary background to weigh in on this debate by making a detailed examination of a narrow topic of history and an in-depth study of its portrayal in motion pictures. Students will also gain experience in various methods of conducting historical research, analyzing film as a tool for cultural expression, and a greater comfort with the forms of writing relevant to historians.

256/257(H). The Vietnam War Experience

2.5 credits

The war between the United States and Vietnam stands as one of the most controversial and influential moments in modern history, one in which two countries a world apart found themselves drawn into a clash of arms, ideologies, and cultures that left them both torn apart. Beyond the battlefields, the Vietnam experience was a culmination of the major forces that shaped the 20th century: nationalism and colonialism, socialism and capitalism, race and ethnicity, and fundamental differences between East and West. This elective traces the early cultural history of Vietnam through the colonial experience under the French, into the war with the United States, and beyond.

ART

The recommended sequence of Visual Art Courses for is as follows:

All students should begin with *Introduction to Art-850* followed by elective courses which include *Drawing-856, Printmaking-852, Ceramics-854, Painting-860, visual Communications-862, Sculpture-864, Digital Photography I-870, and Special Projects in Art-874*

The serious Visual Art student is advised to begin with *Introduction to Art-850*, followed by *Drawing-856*, followed by electives leading to *Studio Art* and *Portfolio*

Unless otherwise designated, all courses are offered at the College Prep Level 2.

850. INTRODUCTION TO ART

2.5 credits

Open to all students.

This course is designed as an introduction to the language and materials of the visual arts and serves as a prerequisite for most of the other studio classes. Students will experiment with a wide variety of materials and processes, each corresponding with one of the other art electives offered by the department. Equal emphasis will be placed on studio projects, art history; and aesthetics; each unit incorporates creating art, discussing approaches for looking at and evaluating a work of art, and understanding a particular period in the history of Western art.

852. PRINTMAKING

2.5 credits

Prerequisite: Introduction to Art

This course is designed for students to create artwork using many of the different types of printmaking processes, from relief printing to etching, monotype, transfer printing, collographs, screen printing, block printing and more. Printmaking in a world historical perspective will examine early forms of illustrations to more contemporary collage techniques. Students will be required to develop an edition of prints.

854. CERAMICS

2.5 credits

Prerequisite: Introduction to Art

Students will be exploring clay as an art medium through a survey of ceramic art forms from around the world, with a specific focus on non-Western cultures. Many techniques that can express both form and function will be studied including coil, pinch, and slab methods, as well as throwing clay on the pottery wheel. Students will study the design and craft of working with

clay while exploring both historical and natural influences. A variety of glazing techniques will also be used to enhance the work.

856. DRAWING

2.5 credits

Prerequisite: Introduction to Art

This course is designed to expand the student's knowledge of the language and materials of drawing, as well as explore the differences between representational and expressive art. Students will experiment with a variety of materials including pencil, charcoal, pen and ink, pastels, and non-traditional drawing media. The class begins with a focus on improving perspective and observational skills in order to render forms more realistically, moving as the quarter progresses towards more creative and expressive assignments.

860. PAINTING

2.5 credits

Prerequisite: Successful completion of Drawing course.

This course uses a survey of art movements, beginning with Impressionism and continuing through Abstract Expressionism, to explore a variety of techniques and approaches to the art of painting. Students will complete a series of paintings using various styles, sizes, and surfaces to explore how studying and creating art can lead to a deeper understanding of the world around them. Acrylic, watercolor, gouache, and oil sticks will all be used over the duration of the quarter.

862. VISUAL COMMUNICATIONS

2.5 credits

Prerequisite: Introduction to Art

Students will begin to develop a visual sensitivity to and awareness of the world of commercial design, as well as explore how visual imagery is used to communicate meaning and shape the perceptions of the viewer. We will consider the fields of graphic design, illustration, and advertising, and the roles they play in society. Students will utilize both traditional methods and industry-standard computer software such as Adobe Photoshop, Illustrator, and InDesign. Subject matter for assignments will be drawn from discussion of issues relating to the media, advertising, and current events.

864. SCULPTURE

2.5 credits

Prerequisite: Successful completion of Introduction to Art or permission of the instructor.

Students will learn the materials and techniques of three-dimensional design, as well as study how sculpture has evolved as an art form over time. Materials used include wood, plaster, paper, wire, and found objects, among others. Emphasis is placed on understanding structure, exploring how an object fills space, and the importance of craftsmanship. Additionally, students will explore the relationship between a given culture and how that culture expresses itself through its art.

866. STUDIO ART

5 credits

Prerequisite: Introduction to Art plus one other art course

This is a course for the independent-minded art student who wishes to pursue the study of art at a more advanced level. Class projects will encompass work in all media, with most of the decisions regarding subject matter and materials left for the student to determine. An important focus of this class will be on experimentation and the process of developing ideas. Students will be expected to keep a record of their ideas, thoughts, and observations in a journal and build a collection of various images and articles for reference.

868. PORTFOLIO

5 credits

Prerequisite: Senior or advanced junior level and by permission of instructor.

The Portfolio student will develop a rich body of work which demonstrates technical competence in a range of media and ultimately bears the signature of a personal style. Students enrolled in this course will develop a portfolio for application to a fine arts or liberal arts college program. Students will be introduced to working artists and the many options for pursuing a career in the arts. Students will be encouraged to experiment with a variety of materials and processes, including painting, sculpture, printmaking, digital and mixed media, with the goal of producing a unified body of work documented through slides and digital photographs. The class will also present a gallery exhibition of their work.

870. DIGITAL PHOTOGRAPHY I

2.5 credits

Prerequisite: Basic computer navigation and mouse skills.

This course is an introduction to the art of black and white photography. Students learn the basics of shooting with a manual camera, including aperture, shutter speed, lighting, and composition. Adobe PhotoShop is used in place of the traditional darkroom; images are loaded into the computer and corrected for contrast and sharpness, then printed for display. Emphasis is also placed on exploring the history of photography, understanding its technical development and impact on society.

872. DIGITAL PHOTOGRAPHY II

2.5 credits

Prerequisite: Digital Photography I

Students having taken Digital Photography 1 will refine and advance their photography skills, expanding into the use of color and introducing some of the more advanced imaging features of Adobe PhotoShop. Projects here are more conceptual and independent in nature, allowing the student to focus on a particular technique or area of interest. Emphasis is placed on exploring alternative ways to create, manipulate, and display digital photographic images.

874. SPECIAL PROJECTS IN ART

2.5 credits

Prerequisite: Introduction to Art

In Special Projects, students work as a team to explore a specific, self-defined theme over the duration of the entire course. No two classes are alike, as each time this class runs students will collaborate to determine the materials used and exact nature of the finished work. The possibilities are almost endless, and could include installation, film, collage, photography, sculpture, painting, printmaking, or a combination of all of these. Inspiration is drawn from a study of contemporary art, with the finished project displayed in a chosen public space.

SCREENWRITING & FILMMAKING

5 credits

In this two-part, collaborative course, students will spend one quarter learning how to develop and write a screenplay (Screenwriting Fundamentals), the second working as a team to produce a finished quality film (Narrative Filmmaking):

876. SCREENWRITING FUNDAMENTALS (Quarter One)

Screenwriting Fundamentals is designed to equip students with the basic theory and structure of screenwriting so that they may mold their story ideas into a professional product designed for the screen. Emphasis is upon the literary conventions of the form -- character, conflict, plot, dialogue -- as well as the technical elements which make scripts and screenwriting unique. Upon completion of the course, students will have to conceived, developed, and crafted their own original idea into a professional screenplay.

878. NARRATIVE FILMMAKING (Quarter Two)

Students will move to Narrative Filmmaking, where they work as a team to produce a film from one of the screenplays generated in the screenwriting portion of the course. Here they will learn about the various aspects of creating a movie: pre-production (storyboarding, production design, rehearsing), shooting, (lighting, cinematography, continuity, coverage, sound), and post-production (editing, effects, scoring). Throughout the course, students will assume various roles and participate in multiple aspects of the filmmaking process.

MUSIC

The Music Department offerings are divided into the following three areas:

Performing Ensembles-Band, Choir, Treble Choir-(grade 9 girls), and Orchestra.

Students may sign up for more than one Performing Ensemble-see the Multiple Performing Ensemble Options below.

Audition Ensembles-Bel Canto, Chamber Singers, Jazz Ensemble, Chamber Orchestra and Symphony Orchestra for wind, brass and percussion players.

Electives-Jazz Improvisation, Music Theory, Electronic Music Composition.

Performing Ensembles

Prerequisite: Permission of the instructors.

920. CONCERT BAND

7 credits

921. HONORS CONCERT BAND

7 credits

Prerequisite: Proficiency on a wind, percussion or other participating instrument.

The Concert Band studies and performs standard wind band repertoire, with an emphasis on technical development, control of tone and intonation, musical terminology and balanced ensemble sound. The band experience includes pep band, concert band, small ensembles, and sectional rehearsals. Musical development is reinforced through group instruction and daily practicing. Attendance is required at all rehearsals and performances.

923. CONCERT CHOIR

5 credits

924. HONORS CONCERT CHOIR

5 credits

Prerequisite: Permission of instructor

Choral music at Ipswich High School is an elective academic subject with CONCERT CHOIR as the core chorus organization. Though it is primarily a performance-oriented class, students work on the basic tenets of good singing through the use of vocal warm-ups and literature that develop tone quality, breathing, intonation, diction, and other areas of the voice. This mixed chorus will prepare and perform a wide range of challenging choral music representative of many styles, genres, cultures, and periods. Enrollment is open to students in grades 10-12 and grade 9 boys. Grade 9 girls should select Treble Choir.

Attendance is required at all rehearsals and performances. CONCERT CHOIR meets five days a week, and students may be required to participate in sectional rehearsals during Directed Study.

925. ORCHESTRA 5 credits
926. HONORS ORCHESTRA 5 credits

Prerequisite: Proficiency on a string instrument, permission of the instructor.

Orchestra studies string music from the Renaissance, Baroque, Classical and Contemporary periods. In addition to developing mature tonal, rhythmic, and interpretation skills the Orchestra will also focus on the unique technical skills of string instruments. Attendance at all rehearsals and performances is required.

934. TREBLE CHOIR 2 credits
935. HONORS TREBLE CHOIR 2 credits

TREBLE CHOIR is the only Choral Performing Ensemble open to all Grade 9 girls. Though it is primarily a performance-oriented class, students work on the basic tenets of good singing through the use of vocal warm-ups and literature that develop tone quality, breathing, intonation, diction, and other areas of the voice. This female chorus will prepare and perform a wide range of challenging choral music representative of many styles, genres, cultures, and periods. Attendance is required at all rehearsals and performances. TREBLE CHOIR meets two Directed Studies each week.

Ipswich High School students enrolled in Band, Chorus and Orchestra have the option of pursuing honors credit. Students seeking honors credit are expected to be leaders in their respective groups and are required to complete 2 additional requirements per semester. Honors Contracts are available from instructors. Instructors must approve projects in the first week of Quarters 1 and 3. Projects must be completed before final exams each semester.

Multiple Performing Ensemble Options

Students who elect to be in two or three of our core performance groups (Concert Band, Concert Choir, and Orchestra) will enroll in one of our performance options. (See course descriptions for Concert Band, Concert Choir and Orchestra.)

901. BAND/CHORUS 7 credits
902. HONORS BAND/CHORUS 7 credits

903. BAND/ORCHESTRA 7 credits
904. HONORS BAND/ORCHESTRA 7 credits

905. CHORUS/ORCHESTRA 7 credits
906. HONORS CHORUS/ORCHESTRA 7 credits

907. BAND/CHORUS/ORCHESTRA 7 credits

Audition Ensembles

933. HONORS JAZZ ENSEMBLE

3 credits

Prerequisite: Competitive audition, permission of the instructor and registration in Concert Band

This ensemble meets one evening a week and performs 20th Century music including Afro-American jazz, fusion, jazz rock and popular songs. Students will perform in a big band setting with emphasis placed on jazz style and improvisation.

942. CHAMBER ORCHESTRA

2 credits

Prerequisite: Competitive audition, permission of the instructor and registration in Orchestra.

Chamber Orchestra is a select group of 16 string students that perform challenging and original works for string orchestra. The Chamber Orchestra also divides into 4 working quartets. Repertoire will include works from the Renaissance, Romantic, Impressionist, Romantic and Contemporary periods. The Chamber Orchestra and string quartets will perform at school concerts, district and state competitions. Chamber Orchestra will also represent the Orchestra Program at community functions.. Attendance is required at all rehearsals and performances.

946 HONORS SYMPHONY ORCHESTRA

2 credits

Prerequisite: Competitive audition, permission of the instructor and registration in Band.

Symphony Orchestra is a select group of brass, woodwind and percussion students that will perform challenging music written for Symphonic Orchestra. Students will develop advanced sight reading, solo and ensemble skills. Repertoire will be drawn from Renaissance, Classical, Romantic, Impressionist and Contemporary periods. The Symphony Orchestra will perform at school performances, district and state competitions. Attendance is required at all rehearsals and performances.

944. HONORS CHAMBER SINGERS

2 credits

Prerequisite: Competitive audition, permission of the instructor and registration in Concert Choir or Treble Choir.

CHAMBER SINGERS is a select choir drawn from the Concert Choir or Treble Choir dedicated to the performance of literature best suited to a chamber group of advanced musicians. Students should be able to read and memorize music quickly and carry their own part in a small ensemble. All of the requirements and standards of excellence in Concert and Treble Choirs are maintained. As this chorus offers a more rigorous and comprehensive repertoire and honor approach to choral concepts, individual practice is expected outside of classroom rehearsal. Attendance is required at all rehearsals and performances.

948. HONORS AFTER SCHOOL BEL CANTO

2 credits

Prerequisite: Competitive audition, permission of the instructor and registration in Concert Choir or Treble Choir.

BEL CANTO is a select women's choir drawn from the Concert/Treble Choir for the performance of advanced treble literature. Students should be able to read and memorize music quickly and carry their own part in a small ensemble. All of the requirements and standards of excellence in Concert and Treble Choirs are maintained. As this chorus offers a more rigorous and comprehensive repertoire and honor approach to choral concepts, an emphasis is placed upon each singer's responsibilities, particularly in the individual's preparation for rehearsals and performances. Attendance is required at all rehearsals and performances.

Electives

930. JAZZ IMPROVISATION

2.5 credits

931. HONORS JAZZ IMPROVISATION

2.5 credits

Prerequisite: Permission of the instructor.

This ensemble studies and performs 20th Century American music ranging in styles from African American jazz to rock and popular songs. The emphasis will be on improvisation and jazz style. Students will perform in small jazz combos.

940. MUSIC THEORY

5 credits

Prerequisite: Permission of the instructor.

This course is designed to teach the elements of music and to develop basic musical skills such as sight-reading, rhythmic dictation, and composition. Students will learn to read and write in different clefs, keys and meters; will construct scales, identify intervals, study basic harmony, and learn basic compositional techniques. No prerequisite is required for this course.

950. THE GUITAR EXPERIENCE (LEARN TO PLAY GUITAR)

2.5 credits

This course will teach basic guitar techniques for the beginning guitarist. The course will cover music notation including traditional notation and tablature, learning to play melodies, basic chord structure, chord symbols and chord strumming, styles of accompaniment, solos, and music theory. Students will be introduced to various guitar styles including folk, classical, blues and rock and roll. Students must provide their own guitar. (An acoustic guitar with nylon strings is preferred for ease of playing).

TECHNOLOGY **ENGINEERING**

601. ENGINEERING THE FUTURE

5 credits

Engineering the Future: Science, Technology, and the Design Process is designed to introduce students to the world of technology and engineering, as a first step in becoming technologically literate citizens. Additionally, the course will help high school students answer the question: “Why should I study math, science and engineering even if I don’t plan on a technical career?” Through practical, real world connections and hands-on activities, all students will have the opportunity to see how science, mathematics, and engineering are part of their everyday world, and why it is important to be technologically and scientifically literate. Credits may be applied toward science requirement for graduation. Science department approval is required.

603. DRAFTING & DESIGN TECHNOLOGY I

5 credits

Open to grades 10, 11 and 12

This is an introductory course which teaches design fundamentals and skills for planning and building residential structures. The class will use Vectorworks, a professional level, computer-aided drafting (CAD) system and Google SketchUp to create plans for a single family home. Students will be presented with the challenge of designing and modeling a home within given criteria and constraints. Their solution will be presented to their peers and visiting professional architects. Drafting and design offers many career opportunities which will be explored through site visits and guest lecturers.

605. DRAFTING & DESIGN TECHNOLOGY II

5 credits

Prerequisite: Drafting & Design Technology (B or above) or students with CAD software experience and teacher approval.

Students will continue their design experience using CAD software and modeling. Students will be involved in individual or group design/build projects. Projects may include architectural and engineering design competitions. Students will be responsible for periodic reports and a semester project/presentation.

607. ENGINEERING TECHNOLOGY II

5 credits

Grades 10, 11 & 12

Prerequisite: C or above in Engineering the Future or permission of the instructor. Successful completion of this course earns 5 credits of the 15/20 science credits required for graduation.

Engineering Technology II is structured to explore the Engineering Design Process – define a problem, research, develop solutions, build prototypes, test, communicate and redesign. By employing methodologies used by engineers to solve a series of sequential design problems, the students learn teamwork, analysis techniques, communication skills, and the importance of completing a task on time within given criteria and constraints. Students will be required to complete engineering presentations on their work as well as current topics in science and technology.

610. ROBOTICS I

2.5 credits

This course introduces the principles of robotics and the roles that robots play in our lives. Students will increase their understanding about what makes a robot, how robots sense, think and act as well as the uses and limitations of working robots. Students will better understand the role of mechanical engineering, electronics and computer programming in the design and development of robots. The class will learn basic programming using the Mindstorms Robotics Invention System and the programming language Robolab 2.9, which is the robotics language used by MIT and Tufts University. This course will require hands on project based cooperative learning where students work in teams to solve robotic design challenges. Students will be required to complete engineering presentations on their work as well as current topics in the field of robotics.

640. ROBOTICS II

2.5 credits

Grades 10, 11 & 12

Prerequisite: C or above in Robotics I or computer programming experience and teacher approval.

In this course, students will create modern electronic equipment controlled by the Super Cricket microprocessors. Super Crickets were developed at a major research university and can be used to control DC motors, servo motors, lights and receive input from sensors. The Super Cricket uses the easy to learn Logo language, and has a built-in IR port for program download and inter-Cricket communications. The course will begin with detailed directions for hands-on learning, leading to more open ended projects as students develop their skills and knowledge.

PHYS. ED./HEALTH

800. PHYSICAL EDUCATION GR 9

2.5 credits

Physical Education for grade 9 is a combination of sports and physical fitness sports. Activities may include: frisbee, flag football, soccer, floor hockey, cross-country skiing, basketball, volleyball, badminton, tennis, pickleball, ping pong, track and field, new games, personal fitness and a physical fitness test.

805. PHYSICAL EDUCATION / PROJECT ADVENTURE

2.5 credits

Prerequisite: Sophomore status.

Project Adventure is a course in which Physical Education and the Outdoor Adventure-Based Learning Process are combined as one curriculum. The Project Adventure course is designed to develop balance, coordination, agility, and willingness to trust, within a supportive, non-competitive atmosphere. The program offers a high and low ropes course (indoors and outdoors), low balance course, problem solving, trust activities, adventure games, trust activities and selected field trips.

810. ADVANCED PROJECT ADVENTURE

2.5 credits

Prerequisite: Successful completion of Project Adventure and permission of instructor.

Advanced Project Adventure follows the same philosophy, goals and objectives as Project Adventure. A student who signs up for this program is seeking greater challenges and a desire to improve on technique, terminology and processing. The exploration of outdoor opportunities involves research, group discussions and field trips, including a weekend overnight trip.

815. LIFETIME SPORTS

2.5 credits

Prerequisite: Junior or Senior status

The activities may include: bowling, pickleball, basketball, frisbee, badminton, personal fitness program, tennis, golf, archery, running, cross country skiing, skating, volleyball, bocci ball, ping-pong, weight training and softball. This course will emphasize skills, development and fitness that will benefit students throughout their adult lives.

820. HEALTH & WELLNESS

2.5 credits

This health education class provides our students with basic essentials in physical, emotional, and mental health. This course is designed to develop knowledge, attitudes and the appreciation necessary to meet the present and future health needs of youth and society. This course meets a graduation requirement.

825. FITNESS & NUTRITION FOR LIFE

2.5 credits

This elective is designed to further a students' knowledge in the areas of caloric intake (diet) and caloric expenditure (exercise). Students will learn about the musculoskeletal system, principles/types of exercise, physical fitness, recognition and care of injuries as well as eating for energy, food selection/balance, and staying healthy. The course is broken into two sections. Section one will take place in a classroom/academic setting and section two will take place in a physical/laboratory setting. Through planning, tracking, journaling, and implementing students will gain a firm understanding of the balance that is needed to achieve their goals.

840. SPORTS REPLACEMENT / PHYSICAL EDUCATION:

Juniors and Seniors who have completed their 5 credits in physical education may elect this course if they complete two or more seasons of junior varsity or varsity level interscholastic athletics during their junior and/or senior years. Students must successfully complete the entire sport season in order to receive credit. Students who choose not to elect two or more junior varsity or varsity level sports during their junior and/or senior year will be responsible for earning an additional 2.5 credits in physical education in order to fulfill their graduation requirement (see page 2).

845. PHYSICAL EDUCATION TEACHER ASSISTANT

2.5 credits

Open to grades 11 and 12 with prior approval of the Physical Education teacher.

Physical education teacher assistants will help the teacher distribute, collect, set up and take down equipment, lead conditioning and stretching exercises and otherwise assist in Physical Education, Lifetime Sports, or Project Adventure classes. To register for this course one must have prior approval from the teacher.

Other Courses/Programs

700. VIRTUAL HIGH SCHOOL (VHS) PROGRAM:

(credit varies with course)

The VHS program is a collaborative of high schools from around the country that offer students courses ranging from advanced academic subjects to technical and specialized courses via the internet. Full credit is given for all courses successfully completed. The Guidance office has a catalog outlining the available subjects. Registration for the program is the first week in April. Students interested in this program should contact the Assistant Principal. Availability is limited to 40 slots.

090. WORK STUDY PROGRAM

5 credits

Prerequisite: approval of the Principal and a Guidance Counselor and Work Study Team.

The Work Study Program is available to those students who may benefit from a school day that includes both academic classes and a paid work experience (minimum two hours per day) outside of the school. Parental consent and a Work-Based Learning Plan are required. Regular conferences with a member of the Guidance Department will be expected.

BRIDGE PROGRAM

5 credits

The BRIDGE Program is the senior year component of the IHS School-to-Work program. Through a full-time internship, seniors learn what skills are necessary and what it takes to succeed in a career while gaining “real world” experience. Senior internships start at the beginning of the fourth quarter and run until the end of senior classes. To qualify, seniors must be in good academic standing earning C- or better in every course during their senior year and must meet all graduation requirements. Parental consent and approval by the BRIDGE Review Board are required.