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ATLANTIC SENIOR HIGH SCHOOL

Purpose of the Registration Guide

The purpose of the Registration Guide is to acquaint students and parents with the course offerings of Atlantic Senior High School and to provide information which will assist in the selection of courses.

Counselors are available to assist students and their parents in the selection of subjects. An appointment with a counselor can be made by calling 712-243-5368.

Requirements for Graduation

Students must satisfy the following requirements to graduate from Atlantic High School.

1. Complete 45.0 credits
2. Successfully complete the following:
 - a. Eight semesters of English
 - b. Two semesters of American History
One semester of American Government
Three semesters of social studies electives - one class must be global
 - c. Four semesters of mathematics
 - d. Four semesters of natural science **OR**
Two semesters of natural science, Health 1, Health 2
 - e. Eight semesters of physical education or weight training
3. **Beginning with the class of 2011, students must complete 8 semesters of English, 6 semesters of social studies, 6 semesters of mathematics, 6 semesters of science, and 8 semesters of PE or weight training.**

Policy on Non-Discrimination

The Atlantic Community School District does not discriminate on the basis of sex, race, national origin or disability in educational program. Furthermore, male and female students are strongly encouraged to enroll in the vocational areas (Industrial Technology, Family Consumer Science, Business Education, Agriculture Education) and other elective courses available.

The faculty and administration

Strongly recommend students take elective courses in the following areas:

Foreign Language - 2 years minimum

Business - particularly Microsoft Office

Fine Arts - vocal, instrumental, visual arts

Family Consumer Science

Industrial Technology

Agricultural Education

Definitions

Credit - The numerical reward a student receives for successfully completing a high school course. An academic class that meets 5 times a week for a semester yields one credit.

Elective Course - A subject that a student may choose to study as distinguished from a required class, which they must take.

Required Course - Courses which are prescribed by the high school for the completion of a diploma or student program. Students choose electives; required courses are chosen for them.

Load - The number of credits for which a student is registered for a given semester.

Prerequisite: Any course a student must take or any requirement he/she must meet before enrolling in a class.

Class Load

The minimum class load for high school students will be five full credit subjects each semester, plus physical education or weight training. The student's program requires the approval of the parents and a high school counselor.

Making Up Classes That Have Been Failed

If a student fails to pass a required class, this class must be retaken. If a student fails an elective class, the class need not be retaken, but no credit is awarded. If a student fails a beginning level course, the student cannot take an advanced course in that area. When a student fails a course, the best procedure to follow is to visit with a counselor in order to determine graduation status and to arrange any necessary schedule changes.

Repeating Classes

In most cases, when a course is successfully completed, it may not be retaken for credit.

Advanced Placement Program

Participating in the AP Program gives students the opportunity to take college-level courses while still in high school. AP Courses teach skills that can lead to success in college. Each course has a corresponding AP Exam that schools administer world wide in May. Qualifying scores on the exam may translate to college credit.

Atlantic High School offers an AP US History class and an AP US Government & Politics class as part of its regular curriculum. Additional AP Classes are available online through Belin-Blank Center. The following online courses vary from year to year: Calculus, Chemistry, English Language and Composition, English Literature and Composition, French Language, Macroeconomics, Microeconomics, Physics, Psychology, Spanish Language, and Statistics.

Post-Secondary Enrollment Options

The Post Secondary Enrollment Options Act was enacted to promote rigorous academic pursuits and to provide a wider variety of options to high school students. Under the act, high school students may enroll in college courses (either a regular campus class or online). The class must be offered by an Iowa college and cannot be similar to a course offered by the high school. The student must have the academic ability to complete the course (as determined by the college staff and their high school counselor). The high school will pay the \$250.00 fee. However, the \$250.00 must be reimbursed if the course is not completed or not passed with a C- or higher.

Iowa Learning Online

Iowa Learning Online is designed to help local Iowa school districts expand learning opportunities for their high school students through courses delivered “at a distance” using technologies such as the Internet and interactive video classrooms connected to the Iowa Communications Network (ICN). Students enroll in Iowa Learning Online courses through their local school district.

CareerVision Career Academies

The AEA 13 consortium has developed career academies throughout the AEA 13 schools. The host site will be determined this spring and will allow students from other school districts to travel and participate in the different academies. The career academies will be dual credit classes and will be 3 college credits per career academy course. There will be academies offered in the following career pathways: Information Technology, & Health Occupations. Iowa Western Community College will be the host site for Health Occupations in Atlantic. If interested see your counselor for details.

Auditing Classes

Classes may be audited, taken without a grade for no credit, with the permission of the instructor and a counselor. An audited class may not, however, replace a required 5th class or PE.

Dropping or Transferring Classes

If a student registers for a year class (2 semesters), he/she is expected to remain in the class for the year. Transferring to another class can be made only during the first week the class is in session. Courses may be dropped prior to the end of the first nine weeks of the semester if the class dropped is the 6th academic course on the student's schedule. If dropped after that, the student will receive a failing grade for that semester.

Mid-Year Graduation

Seniors may apply by October 1 for mid-year graduation in January. Students who may want to consider mid-year graduation are to visit with the principal and obtain the necessary forms for approval. These students must also discuss senior year course requirements for the first semester with a counselor to make sure all requirements are met during registration their junior year. Graduation ceremonies for all seniors (including mid-year graduates) will take place in May.

Incomplete Grades

Incomplete grades are given only as a result of extenuating circumstances that prevent completion of the course by the last day of the semester. Ten school days are allowed at the end of each grading period to remove an "Incomplete."

Honor Roll and Cumulative G.P.A.

To be eligible for the honor roll at the end of any grading period, a student must have a B average with no grade lower than a C-. Grades in physical education, weight training, flags and show choir do not count toward honor roll or cumulative grade point average. **These classes are participation courses and not considered for honor roll.**

Some Basics To Remember

1. Become thoroughly familiar with all the required courses and graduation requirements of Atlantic High School.
2. A series of high school mathematics courses is very important as students prepare for the careers of the future. Three or four years of high school math are necessary for a wide variety of occupations. Mathematics will be even more important in the future.
3. Schedule two or more years of science classes, which include laboratory work.
4. Seriously consider a foreign language as a curriculum choice. Some colleges expect two or three years of foreign language study, and everyone's understanding of the world can be improved by knowing another language.
5. Be sure to pursue elective courses in the arts, agriculture, and vocational courses which will permit students to explore their special interests. These courses should be considered very important.

2009-2010
COURSE OFFERINGS
COURSES ARE LISTED IN RECOMMENDED ORDER

<u>English/Language Arts</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>CR</u>	<u>Science</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>CR</u>
English 1	R	R	R	R	2	General Science	E	E	E	E	2
English 2		R	R	R	2	Earth Science	E	E	E	E	2
Applied English			E	E	2	Biology	E	E	E	E	2
English 3			E	E	2	Environmental Science		E	E	E	2
American Lit			E	E	1	Chemistry		E	E	E	2
English Lit			E	E	1	Geology* (10-11)		E	E	E	1
Advanced Speech			E	E	1	Anatomy and Physiology		E	E	E	1
Pre-College Comp			E	E	1	Advanced Chemistry			E	E	2
English Comp 105 (HES)				E	1	Physics			E	E	2
English Comp 106 (HES)				E	1						
Interpersonal Communications			E	E	1	Social Studies					
Journalism			E	E	1	American History	R	R	R	R	2
Creative Writing				E	1	World Geography	E	E	E	E	2
						Middle World Hist		E	E	E	2
Speech/Debate						Survey World History		E	E	E	2
Debate 1	E	E	E	E	1	Ancient Wld Hist/Cult*(09-10)		E	E	E	2
Debate 2		E	E	E	1	Modern World History*(10-11)		E	E	E	2
Debate 3			E	E	1	Iowa in the World* (09-10)		E	E	E	1
Debate 4				E	1	Religion in America*(10-11)		E	E	E	1
Drama		E	E	E	1	Cur Prob & Issues (CPI)			E	E	1
Adv Drama			E	E	1	Psychology			E	E	1
Forensics	E	E	E	E	1	Sociology*(09-10)			E	E	1
Adv Forensics		E	E	E	1	AP US History			E	E	2
						AP US Government			E	E	1
						American Government				R	1
Journalism											
Journalism Practicum			E	E	1						
Editing-School Paper				E	1	Foreign Languages					
Editing-Yearbook				E	1	Spanish 1	E	E	E	E	2
						Spanish 2		E	E	E	2
						Spanish 3			E	E	2
Mathematics						Spanish 4				E	2
Basic Math	E	E			2						
Pre-Algebra	E	E	E	E	2						
Consumer & Career Math		E	E	E	2	Agriculture					
Algebra 1A	E	E	E	E	2	Basic Carp/Comm	E	E	E	E	1
Algebra 1B		E	E	E	2	Agricultural Welding			E	E	1
Algebra 1	E	E	E	E	2	Horticulture			E	E	1
Algebra & Geometry Concepts		E	E	E	2	Crop Science*(10-11)	E	E	E	E	1
Tech Math			E	E	2	Agricultural Mechanics*(10-11)		E	E	E	1
Geometry Regular		E	E	E	2	Farm Mgmt 1*(10-11)			E	E	1
Algebra 2			E	E	2	Farm Mgmt 2*(10-11)			E	E	1
Modern Geom/Alg 2	E	E	E	E	2	Animal Science*(09-10)	E	E	E	E	1
Adv Math	E	E	E	E	2	Adv Carp and Soil Sci*(09-10)		E	E	E	1
College Stat (HES)		E	E	E	1	Ag Business*(09-10)			E	E	1
PreCalculus (HES)		E	E	E	2	Machinery Mgmt*(09-10)			E	E	1
Calculus (HES)			E	E	2	Adv Ag Welding			E	E	1

2009-2010
COURSE OFFERINGS
COURSES ARE LISTED IN RECOMMENDED ORDER

Business Education	9	10	11	12	CR	Music	9	10	11	12	CR
Microsoft Office 2007	E	E	E	E	1	Freshmen Choir	E				1
Adv Microsoft Office 2007	E	E	E	E	1	Freshmen Show Choir	E				1
General Business	E	E	E	E	1	Concert Choir		E	E	E	1
Internet Applications	E	E	E	E	1	Sensations Show Choir		E	E	E	1
Adv Internet Applications	E	E	E	E	1	Chamber Chorale		E	E	E	1
Marketing	E	E	E	E	1	Show Choir Ambassadors		E	E	E	1
Personal Finance	E	E	E	E	1	Music History			E	E	1
Accounting			E	E	2	Basic Music Theory			E	E	1
Business Law			E	E	1	Advanced Music Theory				E	1
Intro to Computers (CA)			E	E	1	Symphonic Band	E	E	E	E	2
Spreadsheets (CA)			E	E	1	Jazz Band	E	E	E	E	0.5
Web Design (CA)			E	E	1	Flags - 1st Quarter	E	E	E	E	0.25
Adv Accounting				E	1						
Multi Occupations				E	6	Art					
						Basic Art	E	E	E	E	2
Family and Consumer Sciences						Drawing 1		E	E	E	1
Exploring Skills for Life	E	E	E	E	2	Painting 1		E	E	E	1
Foods 1	E	E	E	E	1	Ceramics 1		E	E	E	1
Foods 2		E	E	E	1	Drawing 2			E	E	1
International Cuisine		E	E	E	1	Painting 2			E	E	1
Child Development		E	E	E	1	Ceramics 2			E	E	1
Fashion & Clothing	E	E	E	E	1	Photography				E	1
Interior Design	E	E	E	E	1	Art Portfolio				E	1
Married and Single Life			E	E	1						
						Driver Education/Health/Physical Education					
						Health 1	E	E	E	E	1
Industrial Technology						Health 2	E	E	E	E	1
Tech Career Exploration	E	E	E	E	1	Physical Ed	R	R	R	R	0.5
Comm Tech*(09-10)	E	E	E	E	1	Weight Training		E	E	E	0.5
Intro to Const*(10-11)	E	E	E	E	1	Driver Education (summer)	E	E	E	E	0.5
Mech Drawing & Design	E	E	E	E	1						
Manufacturing Tech			E	E	1	AP Online Courses					
Electronics			E	E	1	AP Calculus AB (OL)				E	2
Engineering Drafting & Design		E	E	E	1	AP Statistics (OL)			E	E	2
Arch Drafting & Design			E	E	1	AP Biology (OL)			E	E	2
PC Support I (CA)			E	E	1	AP Chemistry (OL)			E	E	2
PC Support II (CA)			E	E	1	AP Physics (OL)				E	2
Advanced AutoCAD (CA)			E	E	1	AP English Lang & Comp (OL)			E	E	2
Building Trades (CA)				E	6	AP English Lit & Comp (OL)			E	E	2
						AP Spanish Lang & Comp (OL)				E	2
						AP Psychology (OL)			E	E	1
						AP Macro Economics (OL)			E	E	1
						AP Micro Economics (OL)			E	E	1

Minimum Requirements for Admission

Iowa State Univ.	University of Iowa	UNI	Optimum
<p><u>English</u> Four years of English/ language arts, reading, emphasizing writing, speaking, as well as an understanding and appreciation of literature.</p>	<p><u>English</u> Four years, with an emphasis on the analysis & interpretation of literature, composition & speech.</p>	<p><u>English</u> Four years, including one year of composition; also may include one year of speech, communication, or journalism.</p>	<p><u>English</u> Four years with emphasis in writing, reading, speaking, listening and interpretation of literature. Extracurricular - debate, speech, paper & yearbook.</p>
<p><u>Math</u> Three years, including 1 year each of algebra, geometry, & advanced algebra.</p>	<p><u>Math</u> Three years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts & Science. * Four years, including the 3 above and one year of high math (trig, analysis or calculus), for the College of Engineering.</p>	<p><u>Math</u> Three years, including equivalent of algebra, geometry, and advanced algebra.</p>	<p><u>Math</u> Four years. While advanced courses like calculus & statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.</p>
<p><u>Natural Science</u> Three years, including 1 year each from any 2 of the following: biology, chemistry, & physics.</p>	<p><u>Natural Science</u> Three years including one year each from any two of the following: biology, chemistry and physics for the College of Liberal Arts & Science. * Threes including chemistry & Physics for the College of Engineering</p>	<p><u>Natural Science</u> Three years, including courses in general science, biology, chemistry, earth science, of physics: lab experience highly recommended.</p>	<p><u>Natural Science</u> Four year. To be really well prepared for college, take at least one year each of biology, chemistry and physics.</p>
<p><u>Social Studies</u> Three year for the College of Liberal Arts & Sciences. *Two years for the Colleges of Agriculture, Business, Design, Education, Engineering and Family & Consumer Sciences.</p>	<p><u>Social Studies</u> Three years, with US History and world history recommended for College of Liberal Arts & Science. * Two years, with U.S. & world history recommended for College of Engineering.</p>	<p><u>Social Studies</u> Three years, including courses in anthropology, economics, geography, government, history, psychology or sociology.</p>	<p><u>Social Studies</u> Three years are essential, but four is better. Courses in psychology, sociology, economics are beneficial.</p>
<p><u>Foreign Language</u> Two years of a single foreign language for admission to the College of Liberal Arts & Science</p>	<p><u>Foreign Language</u> Two years of the same foreign language.</p>	<p><u>Foreign Language</u> Foreign languages courses are not required for admission. However, two years of foreign language in H.S. with a C- or above in the last term will meet UNI's graduation requirement.</p>	<p><u>Foreign Language</u> Four years of the same foreign language.</p>
<p><u>Other Courses</u> No specific electives.</p>	<p><u>Other Courses</u> No specific electives.</p>	<p><u>Other Courses</u> Foreign lang. or fine arts.</p>	<p><u>Other Courses</u> Fine arts, computers, tech.</p>

ENGLISH / LANGUAGE ARTS

The Atlantic Community School District has adopted seven standards in the areas of reading and communication for all students to meet in the English/Language Arts curriculum. Along with these standards, all students in English/Language Arts will work toward demonstration of the district's eleven student achievement goals.

This can be accomplished in the following ways:

English 1H*	English 1*	English Core I*	Intro to Language Arts*
English 2H*	English 2*	English Core II*	English Core I*
<i>Adv. Speech</i>	English 3*	Applied English*	English Core II*
<i>Eng. Composition I</i>	Choose Any Two:	English 3 OR any two:	Applied English*
<i>Eng. Composition II</i>	<i>English Literature</i>	<i>English Literature</i>	Interpersonal
<i>English Literature</i>	<i>American Literature</i>	<i>American Literature</i>	Communications
<i>American Literature</i>	<i>Pre-College Composition</i>	<i>Pre-College Composition</i>	
Drama	<i>Eng. Composition I</i>	<i>Eng. Composition I</i>	
Forensics	<i>Eng. Composition II</i>	<i>Eng. Composition II</i>	
Journalism	<i>Advanced Speech</i>	<i>Advanced Speech</i>	
Creative Writing	<i>Journalism</i>	<i>Journalism</i>	
Debate	Creative Writing	Creative Writing	
Interpersonal	Drama	Drama	
Communications	Forensics	Forensics	
	Interpersonal	Interpersonal	
	Communications	Communications	
	Debate		

*Required for graduation
Plus FOUR Electives

*Required for graduation
Plus TWO electives

*Required for graduation
Plus TWO electives or English 3

Courses in bold italics are highly recommended for students planning to attend a 4-year college.

A student completing English 2 has the option to take a full year of English 3 plus two electives or four of the bold italicized courses.

Students must stay on track unless changed through teacher recommendation.

Students must be aware of the fact that some colleges do not accept journalism as an English credit.

Introduction to Language Arts

Required

2 credits

The main goal of this introductory class is to focus on strategies that will help raise student reading levels. Introduction to Language Arts students are determined by reading scores from the middle school.

English 1 - Core, Regular & Honors

Required

2 credits

English 1 is an integrated study of literature, composition, and language (structure, usage, punctuation, vocabulary, and grammar). Some formal speech instruction is included, as is an introduction to Shakespeare. English 1 Honors and Core programs cover similar content with differentiated expectations based on abilities and interests. Honors and Core eligibility is determined by standardized test scores and teacher recommendations. All English 1 courses emphasize independent reading as an essential base for lifelong learning.

English 2 - Core, Regular & Honors **Required** **2 credits**

First semester of English 2 is a study of the communication process and elements of effective public speaking, including communication skills needed when applying for jobs. Second semester introduces students to a survey of classic world literature; course content includes oral and written critical literary analysis. Both semesters include ongoing writing instruction, including grammar, and emphasis on independent reading as an essential foundation for facility of language. English 2 Honors and Core programs cover similar content with differentiated expectations based on abilities and interests. Honors and Core eligibility is determined by standardized test scores and teacher recommendations.

Applied English **Elective** **2 credits**
Prerequisite: English 1-2

The main goal of an Applied English class is to provide select junior and senior level students with the communication skills of speech, listening, technical writing and technical reading which they can then apply to their current education and future life goals. Students will be selected for available space through recommendation from 10th and 11th grade English staff or by being enrolled in the English Core Program. Any additional openings in the class will be filled by accepted applications. Twenty percent of a student's grade is based on individual reading. Students who have completed three years of English and are interested in applicable skills, including resumes and business letters, should talk to their counselors.

English 3 **Elective** **2 credits**

English 3 is an extension of the curriculum of English 1 and 2. Coursework involves studying world literature, American literature, non-fiction, developing employability and survival skills, research skills, and creating a portfolio.

Interpersonal Communication **Elective** **1 credit**
Grade Level: 11-12

This course is a one-semester introduction to the study of communication used in small groups and interpersonal relationships. Students will study the nature of verbal and nonverbal communication; appropriate use of language registers; effective expression of ideas, opinions, and emotions; written and spoken language choices' effect on relationships; and group dynamics. The course is discussion and activity based. Assignments include individual and group reading of content-related poems, stories, and essays; an individual research project and presentation; group projects; and a variety of written assignments.

American Literature **Elective** **1 credit**
Prerequisite: English 1-2

This college preparatory course includes the study of the development of literature to twentieth century America. A variety of literature, both authors and selections, is studied in-depth. Intensive reading, class discussion, and some critical papers are required. The course utilizes basic texts, films, paperback books, and library sources. Testing will be essay in nature.
Students should have a "B" or better in previous English classes.

English Literature **Elective** **1 credit**
Prerequisite: English 1-2

This is a survey course. Although the course is planned around a basic textbook, students are required to do library research and extra reading. The students should acquire a general knowledge of historical background of English literature, the various literary movements, and authors and their works. Students will need the ability to comprehend on a high level to recognize literary terms and to do critical thinking. Students will be expected to participate in oral discussions and to express their ideas in writing. Testing will be essay in nature.

Advanced Speech**Elective****1 credit**

This course is designed to give the college-bound student or the student with speech aptitude a strong background in speech to assist her/him in expressing herself/himself more clearly. Activities include various types of discussion, persuasion, and formal speech. Major emphasis is on persuasive techniques and problem-solving discussion. Honors track students are expected to take this course; however, all college-bound students should consider enrolling.

Pre-College Composition**Elective****1 credit**

Pre-College Composition is designed for students who plan to attend a two-year or four-year college but need work in mechanics (grammar and punctuation) and the basic writing process (organization and expression). This course will prepare students for the writing skills needed at the collegiate level.

Creative Writing**Elective****1 credit****Prerequisite: English 1-2 (or teacher recommendation)****Grade Level: 12**

This course is a one-semester exploration of the nature of creative expression, including instruction in specific genres: poetry, personal essay, and short story. The course is workshop-based, with students producing and sharing writing in a variety of ways, including partner projects and publishing for a specific audience. Daily writing is required. Students are assessed on their work ethic and contribution to an encouraging work environment as well as the writing products produced.

English Composition 105***Elective****1 credit****Grade Level: 12****Prerequisite: Students should have a B or higher in previous English classes and qualifying test scores from the ACT, ASSET, or Compass Test.**

Advanced Composition is designed for the student who plans to attend a four-year university and who already displays competency in mechanics (grammar and punctuation) and the basic writing process (organization and expression). The course focuses on complex writing skills needed at the collegiate level. Students are required to complete all text readings and exercises, participate in class discussions and peer editing sessions, submit weekly writing journals, and draft and revise multi-paragraph essays. Assigned papers may include such formats as personal narrative, descriptive, exemplification/illustration, comparison and contrast, process analysis, literary analysis, and extended definition. Students must also research and write a documented persuasive paper. Advanced Composition utilizes the computer lab. Honors track students are expected to take this course.

***This course is taken for college credit through Iowa Western Community College. Any grade below a “C-” will result in the student reimbursing AHS for tuition and books. If a student drops the course, he/she may be responsible for a portion of the tuition. Any grade below a “C-” will not transfer for university credit but still must be reported to colleges and universities.**

English Composition 106***Elective****1 credit****Prerequisite: English Composition 101A with a grade of B or higher, or teacher approval. English Literature or American Literature is highly recommended.**

This course is intended to integrate the writing skills of Composition I with elements of more formal, academic English studies-literary analysis and research. We will cover many works of fiction, poetry, and drama in order to foster critical thinking skills, create a better understanding of the tools used in the English field, and (hopefully) bring about a heightened appreciation for the world's classic and contemporary literary works.

***This course is taken for college credit through Iowa Western Community College. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. If a student drops the course, he/she may be responsible for a portion of the tuition. Any grade below a "C-" will not transfer for university credit but still must be reported to colleges and universities.**

SPEECH/DRAMA**Introduction to Drama****Elective****1 credit****Prerequisite: English 1**

Course content includes an overview of the history and development of the theater, reading plays and analyzing plays. The student also studies all aspects of production: writing, make-up, costuming, lighting, properties, set design and construction, and ACTING. Drama students are required to be a part of the school production in some capacity, either technical or performance. This class is not generally accepted as a core English course by post-secondary schools.

Advanced Drama**Elective****1 credit****Prerequisite: "C" or better grade in Intro to Drama and teacher recommendation**

Course content includes reading and analyzing plays for the purpose of character portrayal, set design, costume design, and lighting design. The student also studies various directing styles and techniques and directs the Intro to Drama students in a short scene. The student serves in a leadership capacity for the main stage plays and/or the musical theater scenes: stage manager, assistant stage manager, student director, construction foreman, or lighting foreman. Admittance to the class is based on space availability. Advanced Drama and Drama are to be taken during separate years. This class is not generally accepted as a core English course by post-secondary schools.

Debate 1**Elective****1 credit**

Debate is a beginning course in argumentation organization, research techniques, current events, and philosophy. The course includes practice debates, and the student is required to participate in interscholastic tournaments. This class is not generally accepted as a core English course by post-secondary schools.

Debate 2**Elective****1 credit****Prerequisite: "C" or better grade in Debate 1**

Advanced debate theory and argumentation techniques are covered. Students compete in class as well as in interscholastic tournaments. This class is not generally accepted as a core English course by post-secondary schools.

Debate 3 & 4 **Elective** **1 credit**

Prerequisite: "B" or better grade in Debate 2

Advanced philosophical theory, refutation and rebuttal techniques, and cross examination skills are covered. Research and development of skills are emphasized. Students will compete in class as well as in interscholastic tournaments. Admittance to the class is based on space availability and teacher recommendation. This class is not generally accepted as a core English course by post-secondary schools.

Forensics **Elective** **1 credit**

Emphasis is on the individual speech events, such as impromptu, extemporaneous, oratory, and oral interpretation. The student will participate in interscholastic competition. This class is not generally accepted as a core English course by post-secondary schools.

Advanced Forensics **Elective** **1 credit**

Prerequisite: Forensics

The student will be expected to complete individual forensics projects and participate in interscholastic competition. This class is not generally accepted as a core English course by post-secondary schools.

JOURNALISM

Journalism **Elective** **1 credit**

Prerequisite: "B-" average in high school English

This beginning academic course emphasizes the skills and ethics of the journalist, with an overview of the various opportunities in this field. Special attention is given to writing and producing stories and layouts for *THE NEEDLE* and *THE JAVELIN*. Areas of practical study include interviewing for a story, writing a lead, completing assignments for various types of stories, designing a layout, and using a camera. The course is required for those students wishing to be a part of the school newspaper or yearbook staffs. Keyboarding and photography are recommended. This semester of journalism may be accepted as a core English course by post-secondary schools.

Journalism Practicum **Elective** **1 credit**

Prerequisite: "B-" average in Journalism

Practicum emphasizes the production skills and editorial concepts necessary in newspaper and yearbook publications. Special attention is given to writing and producing stories and layouts for *THE NEEDLE* and *THE JAVELIN*. Areas of practical study include correct usage in writing, research, layout, editorials, yearbook structure and design, photography, and independent projects including publication of year-end *NEEDLE*. Students will learn and use Adobe InDesign to accomplish this work. Keyboarding and photography are recommended. This semester of journalism practicum is **NOT** recognized as a core English course by post-secondary schools.

Editing and Management **Elective** **2 credits**

Prerequisite: Journalism Practicum and "B+" average in Journalism

The third semester course in the journalism program offers editorial experience for students interested in assuming leadership roles on Atlantic High School publications. These students will be responsible for assignments, paste-ups and editing on *THE NEEDLE* and/or *THE JAVELIN* (student's choice). Although it is a one-semester course, it may be repeated for credit if the student wishes to serve on an alternate staff second semester. Keyboarding and photography are recommended.

MATHEMATICS

Mathematics Department Curriculum

Student	Course Plan	7th	8th	9th	10th	11th	12th
Advanced Placement Program	Course 3		Algebra 1	Mod Geom. & Algebra 2	Adv Math	PreCalculus College Stat	Calculus College Stat
College Bound Program	Math 7	Math 8	Algebra 1	Geometry	Algebra 2	Adv Math (year) or Adv Math/Stat	
Intermediate	Saxon 7-6	Saxton 8-7	Algebra 1A (A two-year program)	Algebra 1B	Algebra & Geometry Concepts	Tech Math or Geometry	
General Math	Saxon 6-5	Saxon 7-6	Pre-Algebra	Alg. 1A	Alg. 1B	Alg./Geometry Concepts	
			Basic Math	Consumer Math	Pre-Algebra	Alg 1A	

Basic Math

Elective

2 credits

This course focuses on the basic arithmetic skills of operations with whole numbers, fractions, decimals, percents, ratio and proportion in a problem-solving context. Emphasizes improved study skills, including time management, note taking, test preparation and other skills that will help students be successful in future mathematics courses.

Pre-Algebra

Elective

2 credits

This course provides the opportunity to apply arithmetical and mathematical principles and to develop and maintain basic arithmetic and pre-algebra skills. The course content is a review of arithmetic skills including whole numbers, positive and negative numbers, fractions, decimals, percents, ratio and proportion, plus computation of perimeters, areas, volumes associated with triangles, rectangles, circles, rectangular prisms, cylinders, cones and metric system applications. It is an in depth pre-algebra course.

Consumer and Career Math

Elective

2 credits

Prerequisite: General Math; students who have passed Algebra IA/1R are not eligible for this class

The student will study mathematics through application problems that relate to business and home environments. The student will be required to work on a variety of mathematical problems including computing with whole numbers, decimals and fractions, solving problems involving equations, proportions, percent, perimeter, area and volume and applying methods of probability and statistics. The student will apply mathematical techniques to solving consumer problems involving gross and net income, buying foods and goods, budgeting, personal banking, car buying and car operating expenses, general travel expenses, renting or decorating a home, state and federal income tax, and insurance.

Algebra 1A**Elective****2 credits**

This is the first year of a two-year sequence in algebra. Topics included are properties of real numbers, solving simple equations and inequalities, positive and negative numbers, formulas, factoring, graphing, solving two equations, fractions, decimals and percents; squares and square roots relations and functions. This course is followed by Algebra 1B. The second semester of this course builds upon the first. Therefore, students must successfully complete the first semester **prior** to enrolling in the second semester.

Algebra 1B**Elective****2 credits****Prerequisite: Algebra 1A**

This is the second year of the two-year sequence in algebra. It is designed to prepare all students for success in mathematics. Topics include data analysis, communicating mathematics, drawings and patterns, equations, spatial relations, ratio and proportion, probability and decision making, and functions. This two-year sequence could be followed by a year of Regular Geometry, followed by Algebra 2.

Algebra & Geometry Concepts**Elective****2 credits****Prerequisite: Algebra 1A and Algebra 1B****(Students receiving a "C" or better in Algebra 1R are not eligible for this class.)**

This course includes a semester study of concepts of Euclidian Geometry including logic and proofs, as well as applications of area and distance calculations. Also included is a semester of algebra concepts including linear and quadratic equations. Introductory trigonometry is also included in the algebra portion of this course. This course is designed to prepare students for the work force, military, or a two-year technical school.

Algebra 1**Elective****2 credits**

The study of algebra will prepare students to continue their studies in mathematics, and it will help them to organize their thoughts to solve mathematical problems that everyone meets from day to day. In Algebra students will be working with directed numbers, solving linear and quadratic equations, working with polynomials, factoring, working with fractions, solving inequalities, working with functions, solving systems of linear equations, working with rational and irrational numbers, graphing in 1 and 2 dimensions, and solving algebraic word problems.

Geometry Regular**Elective****2 credits****Prerequisite: Algebra 1 or Algebra 1A and 1B**

The study of geometry is interesting and rewarding in the field of mathematics. Geometry is an entrance requirement for admission to most colleges and is a prerequisite for Advanced Algebra and Trigonometry. The objectives are as follows: (1) strengthen the student's understanding of algebra and geometry (2) develop powers of spatial visualization while building a knowledge of the relationships among geometric figures (3) introduce the elementary methods of inductive and deductive reasoning and increase the student's appreciation of the need for precision of language (4) develop some understanding of the methods to coordinate geometry and of the way in which algebra and geometry complement each other (5) provide the opportunity, stimulation and guidance for creative thinking. The course content is operations with real numbers; ratio and proportion; measurement of geometric figures; equalities; inequalities; logic, inductive and deductive reasoning; proofs; properties of points, lines, planes, triangles, quadrilateral circles and spheres; area and volume of plane and solid figures; coordinate geometry, and locus. The second semester of this course builds upon the first. Therefore, students must successfully complete the first semester **prior** to enrolling in the second semester.

Modern Geometry/Algebra 2 **Elective** **2 credits**
Prerequisite: Algebra 1

This course is a prerequisite for students planning to take Calculus as seniors. The successful completion of the Algebra 1 - Modern Geometry - Advanced Math - PreCalculus and Statistics - Calculus sequence will provide the student with the equivalent of five years of college preparatory mathematics. The Modern Geometry course is similar to Regular Geometry, but more emphasis is placed on studying transformations and isometries. The isometries (reflections, rotations, translations, and glide reflections) will be used to study parallel lines, congruence of figures, area, volume, etc. Approximately fifty percent of the course will be devoted to Geometry, and the remainder will focus on Algebra 2/Trigonometry.

Technical Math **Elective** **2 credits**
Prerequisite: Algebra 1A/1B, Algebra & Geometry Concepts, OR Algebra 1R and Geometry 1R

This course is ideal for a student who wants to learn a technical skill and is planning to enter a one or two year technical or trade program. Algebra, geometry, probability and statistics, discrete math, calculator and computer skills are reinforced. The problems are geared to a large number of applications emphasizing skills needed by persons entering many technical fields including agriculture, architecture, chemistry, computer science, construction, electronics, engineering, physics, and mechanics. A student receiving a "C" or better in Algebra 2 should consider taking Advanced Math, not Technical Math.

Algebra 2 **Elective** **2 credits**
Prerequisite: Algebra 1 and Geometry

This course is intended primarily for students planning to attend college or a technical school. It builds on sequential approaches to content and learning from preceding courses. Geometric and algebraic concepts are extended and connected to topics in probability and statistics, trigonometry, and discrete mathematics. The course content consists of linear functions, linear systems and inequalities, applying patterns to study change, quadratic functions, roots and powers, polynomials, exponents and logarithms, trigonometry, discrete mathematics and models. A student receiving a "C" or better in this course should consider taking Advanced Math.

Advanced Math **Elective** **2 credits**
Prerequisite: Modern Geometry or Algebra 1, Geometry, and Algebra 2

It includes extensive work with the graphing calculator, linear functions, exponential and log functions, trigonometric functions and PreCalculus concepts. It is a prerequisite for students planning to take PreCalculus and Calculus. Students planning to take College Statistics second semester should take this class first semester.

College Statistics* **Elective** **1 credit**
Prerequisite: One semester of Advanced Math or (1 year Algebra 2 with instructor's permission)

This course, taught at Atlantic High School, is taken for dual high school credit and Iowa Western Community College credit. The college credit will transfer to most major colleges and universities. This is an excellent course for college-bound students who desire a better mathematics background but do not plan to specialize in courses requiring a lot of mathematics. The course will include a wide range of applications in economics, social sciences, biological sciences, education, medicine, industry and business. Topics include numerical methods of analyzing data, rules of probability, binomial and normal distributions, sampling, estimation, hypothesis testing and linear correlation.

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. Any grade below a "C-" will not transfer for university credit.**

PreCalculus* **Elective** **2 credits**

Prerequisite: "C" or better grade in Advanced Math

This course, taught at Atlantic High School, is taken for high school credit and Iowa Western Community College credit. The college credit will transfer to most major colleges and universities. This course continues the work from Advanced Math. It is an intensive review of College Algebra and Trigonometry and prepares students for Calculus. Topics include functions, logarithms, systems of equations, matrices, polynomials, conic sections, trigonometric functions, graphs, identities, equations, complex numbers, and polar coordinates.

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. Any grade below a "C-" will not transfer for university credit.**

Calculus* **Elective** **2 credits**

Prerequisite: Modern Geometry/Algebra 2, Advanced Math, and a "C" or better grade in PreCalculus

This course, usually offered only in college, provides the high school student with the opportunity to apply the advanced mathematics to solve complex practical problems encountered daily by mathematicians, engineers, and scientists. Students take this class for dual high school and college credit. The objectives of the course are as follows: (1) enable the student to grasp historical significance and present day importance of the calculus as the foundation for most other branches of mathematics, engineering and science (2) provide the student with an abundance of application problems from mathematics, chemistry, physics, biology and economics. The course content includes a brief review of functions, analytic geometry and trigonometry; a general method for graphing all functions; the derivative; limits; continuity; the integral; applications to problems involving slope; maximum-minimum; rates of change; area; volume; and velocity, motion, forces and work.

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. Any grade below a "C-" will not transfer for university credit.**

SCIENCE

General Science **Elective** **2 credits**

This course is a two-semester survey course divided into two sections. The course is activity based, revolving around the scientific process and method. One semester (GS-L) will consist of inquiry, earth science and life science topics. One semester (GS-P) will relate to the physical sciences. **A student earning at least a "C" in General Science could go on and be successful in Health I or II, Earth Science, and/or Environmental Science.**

Earth Science **Elective** **2 credits**

The course of study is designed to give students a broad perspective of planet Earth. Emphasis is placed on understanding the processes that shape our planet, the atmosphere and our changing weather, Earth's position in space and Earth's water supply. The approach of this course is through text, lab exercises and hands-on activities.

Environmental Science **Elective** **2 credits**
Prerequisite: Earth Science or approval by instructors

This course is designed to explore the relations and interactions between organisms and the environment. Topics include basic ecological concepts such as ecosystems, natural cycles, and energy flow. Human interaction with the environment will be explored and such issues as pollution, global warming, resource management, alternative energy, etc. will be studied. Current events throughout the planet will be used as examples.

Biology **Elective** **2 credits**

The study of biology is concerned with distinguishing living from nonliving matter; organizational levels of biology from protoplasm to organism; basic biochemistry; the nature of DNA and organic change; classification of life forms; structure and function of selected individual organisms; and how the abiotic environment and biotic community relate to each other. Biology is required of any student who plans to later take Anatomy and Physiology and is strongly recommended before taking first year Chemistry. It is important that both semesters of Biology be taken in the same year.

Chemistry **Elective** **2 credits**
Prerequisite: 1 year Algebra & Biology

Chemistry is a science dealing with the composition of materials and the changes in composition, which these materials undergo. It is a necessary requirement for all preprofessional careers and many technical careers. The following areas are included: home economics, premed., pre-vet., agriculture, all engineering careers and all physical science careers. Chemistry requires a good mathematical background. This course provides both a lecture and a laboratory base of instruction.

Advanced Chemistry **Elective** **2 credits**
Prerequisite: Chemistry with "C" grade or better

This is a review as well as a continuation of many of the topics discussed in Chemistry. New topics include solution chemistry, oxidation-reduction reactions, acid-base reactions, bonding, chemical kinetics and some aspects of periodic law. In addition, there is an emphasis on problem solving and on the development of laboratory techniques.

Physics **Elective** **2 credits**
Prerequisite: 1 year of Algebra

This course provides students with knowledge of the foundations of physics, the major relationships between physical quantities and the natural laws governing physical actions. Students will have opportunities to expand and apply their knowledge through laboratory investigations and projects. Students will gain understanding of natural phenomena ranging from the subatomic to the outer depth of space. The main subdivisions are kinematics, dynamics, forms of energy and relativity. Physics is a prerequisite for engineering and health careers and has practical value for the college bound student.

Anatomy & Physiology **Elective** **1 credit**
Prerequisite: at least a "C-" grade in Biology

In this course a study will be made of the basic concepts of mammalian anatomy, particularly the human body structure and function beyond the level of biology. The development and growth of the major body systems will be stressed. Any student serious about a health career should take this course, which may be offered both first and second semesters.

Geology **Elective** **1 credit**
Available 2010-2011

This one semester course is designed for the student who wishes to gain a deeper appreciation of the geological aspects of our planet. Students will investigate the physical characteristics of Earth. Primary topics include mineral resources, map reading, rocks and rock cycle, plate tectonics, weathering and erosion, rivers, Iowa landscapes and national parks of geologic interest.

SOCIAL STUDIES

American History - Survey and Regular **Required** **2 credits**

These courses are designed to provide a general understanding of the social forces and historical events that have contributed to life in America since Civil War Reconstruction. These courses include an examination of industrialization, the Wild West, Roaring 20's, Great Depression, America's war involvement, social changes of the 50's and 60's and leadership into the 21st Century.

World Geography **Elective** **2 credits**

World Geography is a social science course offered early in the senior high program to strengthen and expand the knowledge of geography which students have already acquired. It then builds on this foundation, knowledge of worldwide geographic forces, which have come to play so vital a role in our lives. This study of geography leads to an understanding of those forces and points out the meaning and relationship of geographic facts, geopolitical concerns, and the functional interdependence of all people and places of the world.

Religion in America **Elective** **1 credit**
Available 2010-2011

The heart of the course will be a brief study of the main religions in America, comparing their beliefs and practices. Smaller sects like the Amish, cults like Rev. Moon's group, and eastern religions like the Buddhists will also be examined for their impact. The origins of the Christian faith will be followed to the United States. The relationship between church and state will be traced through American history. Related topics such as abortion, mercy killings and death education may be included if time permits.

Iowa in the World **Elective** **1 credit**
Available 2009-2010

The course will inform students about important past events, individuals, and geography of this state. It will meet the requirements of a semester of world studies, so considerable emphasis during class will be given to Iowa's contribution and place in world affairs today. The class will involve a combination of teaching methods including lecture, discussion, and student activities.

Ancient World History **Elective** **2 credits**
Available 2009-2010

This course is designed to give students an in-depth look at how past cultures have impacted our modern society. Students will study the earliest civilizations of Egypt, Mesopotamia, China and India; the ancient cultures of Greece and Rome; the Middle Ages and Renaissance; and the early cultures of America, East Asia, Africa, and the Middle East.

Modern World History **Elective** **2 credits**
Available 2010-2011

This course is designed to be an examination of the fundamental historic themes that have shaped the twentieth century. Students will gain a perspective of how major events such as two world wars, dictatorships, the cold war, decolonization, the fall of communism, and terrorism have impacted our current society.

Middle World History **Elective** **2 credits**

Middle World History is the study of world history from 1100 to 1900. The course will discuss such topics as the Crusades and Middle Ages, the Renaissance and Reformation, the Age of Exploration, European Monarchs, the Russian Empire and the rule of the Romanovs, British and American Revolutions, the French Revolution, Industrialization, the Enlightenment, world Imperialism and European Nationalism prior to WW I.

Survey World History **Elective** **2 credits**

This course is designed to give an overview of the fundamental historic themes from early man to the present. Students will study the earliest civilizations of Egypt, Mesopotamia, China, and India; the ancient cultures of Greece and Rome; the birth and growth of Islam; the Middle Ages; the Renaissance and reformation; the Age of Industry and Enlightenment; world imperialism; WWI and WWII; the Cold War and modern times.

Current Problems and Issues **Elective** **1 credit**

In this course students will involve themselves in the most current local, national and international news by reading major news magazines and newspapers and through participating in discussions. The primary method of instruction will place emphasis on in-class reading of current events and individual work, rather than the traditional text and lecture-centered approach. This course should be of value to both non-college and college-bound students. The following are general individual and/or group requirements for students: (1) All students, on a weekly basis, will spend a specified amount of time reading news items relating to local, state, national and international affairs. (2) Topics may be specified by the teacher. Evaluation will be based on prepared exams and written assignments.

Sociology **Elective** **1 credit**
Available 2009-2010

This course is designed to introduce students to the scientific study of group behavior. It will serve as a preparatory course for those who may want to pursue this field in college, but will also meet the needs of those who merely wish to have a better understanding of how groups can influence individual behavior. Topics of study in this course will include the following topics: the development of sociology as a social science, culture and its influence on group behavior, sociological theory and research methods and various social institutions which impact out behavior (family, religion, education, deviant behavior, crime statistics, etc.)

Psychology **Elective** **1 credit**

Psychology is the scientific study of the behavior of the individual. This class will meet the needs of those going on to college as well as those who plan to end their education when their high school career ends. This course will focus on the following: the development of psychology as a science, the key individuals who have influenced psychology's development, developmental psychology, personality development, learning, remembering and forgetting, as well as how we deal with stress in normal and abnormal manners, and the treatment of abnormal behaviors.

Students need to be aware of the increased level of difficulty between the first two years and last two years of the Spanish language sequence.

Spanish 3 **Elective** **2 credits**
Prerequisite: Students aspiring to enroll in Spanish 3 must receive a B- or higher in Spanish 2 and must score at least 80% on the placement exam administered during the spring semester of the preceding school year.

In Spanish 3 students will use the language as much as possible in the class. The course will cover many complex verb forms and continue to broaden Spanish vocabulary.

Spanish 4 **Elective** **2 credits**
Prerequisite: Student who would like to take the final Spanish class need to receive a B- or higher in Spanish 3.

The goal of Spanish 4 is to use the target language at all times during classroom instruction, whether it be a lecture or class discussion. Mastery of skills and concepts learned in the first three years of Spanish will be achieved, along with learning complex grammatical components and verb tenses.

AGRICULTURE

Both male and female students are strongly encouraged to enroll in the following agricultural education courses.

Basic Carpentry and Communications **Elective** **1 credit**
Grade level 9-12

This course will consist of shop safety, the use of power and hand tools, and the construction of a shop project. Second quarter will include communication skills, parliamentary procedure, and FFA.

Agricultural Welding **Elective** **1 credit**
Grade level 11-12

This course will consist of electric arc welding and oxyacetylene torch skills development and MIG welding. The first quarter will be used to develop those skills. The building of a metal shop project using the skills developed first quarter will be required in the second quarter.

Advanced Agricultural Welding **Elective** **1 credit**
Grade level 11-12

Prerequisite: Passing Agricultural Welding with a "C" grade or better or instructor approval

Welding Technology teaches aspects of welding that will help the student interested in welding as a career or just to become a better welder. Areas covered are arc welding, MIG welding, brazing and soldering. The building of a shop project using the skills developed first quarter will be required in the second quarter.

Horticulture* **Elective** **1 credit**
Grade level 11-12

This course will consist of vegetable and flower production, hydroponics, greenhouse operation, and landscaping. It will include time in the greenhouse planting and caring for stock. This class will also make landscaping plans, raise plants, and plant flowerbeds.

Animal Science* **Elective** **1 credit**
Grade level 9-12
Available 2009-2010

Prerequisite: Basic Carpentry & Communications or teacher approval

This course will consist of the study of beef, swine, sheep, dairy, horse, small animals, aqua culture, and livestock judging. Study will include breeds, feeding, and the basic care of the above.

Advanced Carpentry and Soil Science **Elective** **1 credit**
Prerequisite: Basic Carpentry
Grade level 10-12
Available 2009-2010

This course will consist of the construction of a more advanced wood project. Second quarter will consist of the study of soils. Included in it will be the components of soils, fertilizers, soil judging, soil capability, and soil testing.

Machinery Management **Elective** **1 credit**
Grade level 11-12
Available 2009-2010

This course will consist of the fundamentals of tractors, combines, planters, and sprayers. It will also include machinery management and machinery setup. This course will include shop experience.

Agriculture Business **Elective** **1 credit**
Grade Level 11-12
Available 2009-2010

This course will consist of business organization, management, communication skills, sales procedures, and careers. Management skills necessary for the operation of a business will be developed.

Crop Science* **Elective** **1 credit**
Grade level 9-12
Available 2010-2011

This course will consist of the study of corn, soybeans, small grains, weeds, tillage, and forages. Study will include varieties, growth characteristics, and care of the above.

Agriculture Mechanics **Elective** **1 credit**
Grade level 10-12
Available 2010-2011

This course will consist of basic electrical wiring, the operation and repair of small gas engines, hydraulics, plumbing, and concrete. This course will include shop experience.

Farm Management 1* **Elective** **1 credit**
Available 2010-2011
Grade level 11-12

This course will consist of farm records, financial planning, decision-making, and marketing. Management skills necessary for operating a farm business will be developed.

Farm Management 2* **Elective** **1 credit**
Available 2010-2011
Prerequisite: Farm Management 1 or arranged with instructor
Grade level 11-12

This course will consist of the practical application of semester one materials in a farm management project. The student will manage a farm scenario, make decisions, and see the results of them.

***Many of the agriculture classes will be accepted for college credit in the agriculture programs at area community colleges. See your counselor for details.**

FAMILY & CONSUMER SCIENCES

Both male and female students are strongly encouraged to enroll in the following Family & Consumer Science courses.

Exploring Skills for Life **Elective** **2 credits**
Grade level: 9-12

This course is a comprehensive class that will provide students the opportunity to learn essential life skills in various areas of the family and consumer science curriculum. It allows students to develop skills in food and nutrition, child development and care, interior design, textiles and clothing, family relationships, and personal responsibility. It is designed to be a full year class but students may take 1 semester for 1 credit.

Foods 1 **Elective** **1 credit**

This course will use both laboratory (hands on) and careful study to improve our daily food choices and skills with regard to nutrition, safety, kitchen management, and enjoyment of eating. Actual food preparation will be done to give experience and measure understandings in the various units.

Foods 2 **Elective** **1 credit**
Grade level 10-12

Prerequisite: B in Foods 1 and/or teacher approval

Advanced Foods class offers students further opportunity to increase their knowledge of food preparation. Emphasis is placed on combination foods, meal planning and preparation, and presentation of foods, including creative techniques. Exploration of food and food customs of other countries as well as regional foods of the United States and possible experience in the food service area with the development of a student managed restaurant are included.

International Cuisine **Elective** **1 credit**
Prerequisite: B in Foods 1 and/or teacher approval
Grade level 10-12

Students will gain an understanding of the food and cultural characteristics of various countries, before preparing food from each country. With this exploration of food from other countries will come the opportunity to gain experience in the food service industry with the operation of the Trojan Diner, a student managed restaurant.

Fashion and Clothing
Available 2009-2010

Elective

1 credit

Fashion and clothing, the design, textile, and consumer aspects of apparel form the core units of this course. After completion of these units, students may select one of two options for the completion of the course. The first option would include learning about the apparel industry and the types of careers available. The second option would include clothing construction experience.

Child Development

Elective

1 credit

Students are given the opportunity for hands on experience with children as they gain understanding of children from studying their development. Students will be responsible for planning and conducting a play school for small children in the community. This experience as well as the study of the growth and development of the child from conception to age six will form a foundation for being a responsible caregiver for children as a teacher, parent, or childcare worker.

Interior Design

Elective

1 credit

Available 2010-2011

Students will become familiar with the use of elements and principles of art in the selection and design of interiors in the home. The design of the home as an attractive and functional place will be included.

Married and Single Life Skills*

Elective

1 credit

This course includes units in developing personality and living skills, sexuality, adult roles and living styles, mate selection, marriage customs and weddings, marital adjustment and life crises (death, divorce, remarriage, and blended families). Students will develop skills in understanding themselves and in developing fulfilling intimate personal relationships. The focus of the learning will be on problem solving and decision-making. *This course may be used for a social studies credit for graduation purposes only. Colleges will not accept this as a social studies class.

Special Projects

Elective

1 credit

Prerequisite: "B" or better in a life sciences class and teacher approval

An individualized project arranged between the student and the teacher.

***Many of the family & consumer science classes will be accepted for college credit in the family & consumer science programs at area community colleges. See your counselor for details.**

BUSINESS EDUCATION

Both male and female students are strongly encouraged to enroll in the following Business education courses.

Microsoft Office 2007

Elective

1 credit

This course is highly recommended for all students to complete as a basic foundation for success in high school and the world of work. Microsoft Word, Excel, Access and Power Point are used in every business setting and employers are looking to hire people with a background in Microsoft Office. Computers are a way of life today and in the future. If students are planning to continue on with education or to get a job right out of high school, this is a computer class for them. This class may count as college credit at area community colleges.

Advanced Microsoft Office 2007 **Elective** **1 credit**
Prerequisite: Microsoft Office

This course is highly recommended for any student who is planning on a career in business as a continuation of Microsoft Office 2007.

Internet Applications **Elective** **1 credit**

Love surfing the Internet? Then why not create some of the information on the World Wide Web. In this class students will be responsible to create and maintain different pages on the school's web site. Keeping the schools web site up to date with current events and activities is the major purpose of this class. The class will also allow the students to create their own web site that they can maintain throughout the years spent at Atlantic High School and beyond.

Advanced Internet Applications **Elective** **1 credit**
Prerequisite: Must have a "B-" or better in Web Design or Internet Apps.

A continuation of Internet Applications, this is a career based class where students will develop skills of web site maintenance. Those students interested in a career in Web Page development should take this class. Keeping the school's web site up to date with current events and activities is the major purpose of this class.

Personal Finance **Elective** **1 credit**

Planning on having a checking account someday? Think saving money is important? Want to know how taxes are taken out of your paycheck every month? Expect to own to a home someday? A yes answer to any of these questions, then this class is a must. Every student should take this class to get the skills needed to do everyday business transactions like balancing a checkbook, having a savings account, and keeping a budget.

Accounting **Elective** **2 credits**
Grade level: 11-12

Accounting is designed to enable students to develop both personal and vocational skills for recording, analyzing, and interpreting business operations from a financial standpoint. Students will be able to keep records for a business as well as for their own personal use. This class is highly recommended for students planning to major in accounting, finance, or business administration in college. Iowa community colleges may accept this class for college credit through an articulation agreement.

Advanced Accounting **Elective** **1 credit**
Grade level: 12
Prerequisite: Accounting

Advanced Accounting is recommended for students who have completed Accounting and plan to major in accounting, business administration, or management at the post-secondary level or an entry-level accounting position in the business world. Computerized accounting concepts will be taught.

General Business **Elective** **1 credit**

Planning on owning a car someday? Know what kind of insurance is needed to cover that car? Know the costs of having a credit card? These are some of the questions that will be answered in General Business. Students will learn the basics of insurance, business ownership, supply and demand, consumer credit, and managing a business. This is a highly recommended class for everyone to learn the basics of business.

Marketing **Elective** **1 credit**
Prerequisite: General Business or permission from instructor

Marketing is one of the most visible business activities. This class brings real-world applications to apply marketing functions. Students will learn how businesses use marketing to increase their effectiveness and the profits they make. They will also improve their personal marketing skills. These skills are useful to consumers as they make better purchasing decisions. And they are the skills needed for many exciting and well-paying careers.

Business Law **Elective** **1 credit**

What is "the law"? The law cannot make people do things that are right, but it will punish them for doing things that are wrong. Business Law discusses how laws are made, changed, and interpreted. Both personal and business law are covered. If entering into a contract to buy a car, renting an apartment, or even getting a job, business law will help with these lifelong decisions. This is a class for everyone who plans on going into a business career after high school.

***Many of the business classes may be accepted for college credit in the business programs at area community colleges. See your counselor for details.**

Web Design* (CA) **Elective** **1 credit**
Grade level: 11-12

The course, taught at Atlantic High School, is taken for high school credit and Iowa Western Community College Credit. Web Design teaches students how to develop web pages. Basic design, construction, and maintenance of the web page are covered. Students learn how to set up a web page using current web page design software and tools.

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. Any grade below a "C-" will not transfer for university credit.**

Spreadsheets (CA)* **Elective** **1 credit**
Prerequisite: Microsoft Office 2007
Grade Level: 11-12

Spreadsheets provides the skills needed for solving business problems using Microsoft Excel software. Students prepare, format, enhance, and insert formulas in a spreadsheet as well as maintain and enhance workbooks, which includes moving data within and between workbooks, creating and customizing charts, and working with Web pages. Advanced formatting techniques are used to enhance worksheets, to work with templates and workbooks, including linking and sharing, using advanced functions, and working with lists.

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Introduction to Computers (CA)*
Grade Level: 11-12

Elective

1 credit

Introduction to Computers consists of a hands-on introduction to microcomputer hardware, operating systems, and application software. Students enter, modify, and manipulate data with word processing, presentation, spreadsheet, and database programs. Students should be familiar with the standard keyboard. This course is structured in five distinct and separate sections. They are as follows: 1) Windows XP (Operating System), Internet Explorer, and Computer Hardware, 2) Word Processing, 3) Spreadsheets, 4) Databases, and 5) Presentation software. Each section is treated as a separate unit for testing purposes. This course is designed primarily for beginners. No prior knowledge of computers is necessary. Students do not need to be expert typists, but **familiarity with the computer keyboard is essential.**

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a "C-" will result in the student reimbursing AHS for tuition and books. Any grade below a "C-" will not transfer for university credit.**

Multi-Occupations

Elective

6 credits

Earn credit, gain work experience, and receive a paycheck. During spring of the junior year, students will apply through a written application and interview process. Students will be screened on the basis of the following: attitude, attendance, and career goals. Upon being selected, students will interview with prospective employers to determine a training station. Upon completion of the year program, 4 credits will be earned for the on-the-job training and 2 credits for the class.

INDUSTRIAL TECHNOLOGY PROGRAM

Both male and female students are strongly encouraged to enroll in the following Industrial Technology education courses.

Technology Career Exploration

Elective

1 credit

Technology Career Exploration is an experiential, career-oriented class offering the student's activity-based learning. The class examines a variety of technical areas: computer animation, aviation, computer-aided design, engineering, research and design, graphic design, bottle rockets, boat design, measurement, and digital photography. Students will work individually or in groups depending on the activity.

Mechanical Drawing and Design

Elective

1 credit

Mechanical Drawing is the introductory class in the world of drafting and engineering. Students will study and learn the techniques of simple board, paper and pencil, and drawing along with the basics of computer drafting with AutoCAD. The latest version of AutoCAD will be implemented, therefore, providing the student with cutting edge technology. The class is taught with an emphasis on how to use AutoCAD as a tool for advancement in engineering, graphic design, and other areas where pictures tell the story. 3D AutoCAD will be introduced to give a taste of the possibilities.

Communications Technology
Available 2009-2010

Elective

1 credit

Communications Technology will introduce the student to a variety of communication technologies and give them insight into career opportunities associated with the communications field. Some of the following areas of exploration are included: telecommunications - telephone, radio, television, and satellite communication; graphic design - visual design, creative design, printed design, photography, and drafting; trends in communications - computers, multimedia, and space. The student will understand the impact and importance of communication in everyday life. There will be a variety of activities such as desktop publishing, graphic design, and animation & video production.

Introduction to Construction
Available 2010-2011

Elective

1 credit

Introduction to Construction gives students the basic understanding of construction and the systems involved in construction. The student will learn about planning and managing construction, building homes and other buildings, and building other projects such as bridges, pipelines, and air-supported structures. Hands-on activities will be incorporated. This knowledge of construction will give a career focus and broaden career options.

Manufacturing Technology

Elective

1 credit

Prerequisite: Mechanical Drawing & Technology Career Exploration

Manufacturing Technology introduces the student to the manufacturing industry, its processes and career opportunities. The class includes three parts: wood technology, mass production, and engineering. This includes a knowledge base for manufacturing, including CNC programming, wood project, problem-solving activities, and possibly guest speakers and/or tours. The mass production part will cover shop safety, the development of a company, and the creation and marketing of a product. The company will develop drawings, make a bill of materials, develop a plan of procedures, make the product, and advertise to sell it. By working in a group setting, the members will learn the importance of cooperation and communication. The third part is the engineering part where the students will design the components on the computer.

Engineering Drafting and Design

Elective

1 credit

Prerequisite: Mechanical Drawing with a "B" grade or better

Engineering Drafting is the second step into the area of computer drafting. The latest version of Inventor will be used. **AutoDesk Inventor** is the 3D parametric solid modeling package produced by U.S.-based software company AutoDesk. Unlike AutoCAD, Inventor is based on newer, more advanced parametric modeling techniques. Users begin by designing *parts*. These parts can then be combined into *assemblies*. Editing parts and assemblies are two completely different things. As a parametric modeler, it should not be confused with traditional CAD programs. It is used in design and engineering to produce and perfect new products. Whereas in non-parametric CAD programs the dimensions are geometry-driven, a parametric modeler allows the geometry to be dimension-driven.

Architectural Drafting and Design

Elective

1 credit

Prerequisite: Engineering Drafting with a "B-" grade or better

Architectural Drafting is the last step in computer design focusing mainly of Architectural techniques and not part modeling. Two programs will be used. The first, **Arch Desktop** is based of AutoCAD standards but with Architectural tools. The second, **Revit** is architectural software for Windows currently developed by AutoDesk. It allows the user to design with parametric modeling and drafting elements. This type of software is sometimes called Building Information Modeling software. What sets **Revit** apart from all other BIM programs is the fact that it is the only program of its kind to provide full Bi-directional Associativity. A change anywhere is a change everywhere, instantly, with no user interaction to manually update any view.

Electronics **Elective** **1 credit**
Prerequisite: Communications Technology or Introduction to Construction with a "C" grade or better

Grade Level 11-12

Electronics gives the student basic knowledge. Students will learn electronic theory, become familiar with different test equipment, and learn to use the different test equipment appropriately. The theory and knowledge will first be learned from the text, applied to a computer program, and then tested on an electronics project kit selected by the student. Career opportunities will also be explored through the possibility of guest speakers and/or tours.

PC Support I: PC Hardware and Software*(CA) **Elective** **1 credit**

Prerequisite: 3.0 GPA

Grade Level: 11-12

PC Support I: PC Hardware and Software presents an in-depth exposure to computer hardware and operation systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance, and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps students prepare for CompTIA's A+ certification. Curriculum is based on Cisco's IT Essentials I Course.

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PC Support II: Networking for Home and Small Business*(CA) Elective **1 credit**

Prerequisite: PC Support I

PC support II is based off Cisco's CCNA Discovery course, Networking for Home and Small Businesses. The goal of this course is to introduce you to fundamental networking concepts and technologies. This course provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in the home and small business environment. These online materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. This course prepares students with the skills needed to obtain entry-level Home network Installer jobs. It also prepares students for some of the skills needed for Network Technician, Computer Technician, Cable Installer, and Help Desk Technician jobs.

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Advanced AutoCAD*(CA)

Prerequisite: an “A” in Mechanical Drawing, Other helpful courses are Engineering Drafting and Arch Drafting.

Grade Level: 11-12

In depth review of techniques taught in Mechanical Drawing are covered. Plotting and document creation will also be an emphasis, will align with IWCC course curriculum for AutoCAD I course, and will earn 3 credits.

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Building Trades*(CA)

Elective

6 credits

The Building Trades program of study provides a basic knowledge of carpentry and related skills used in the residential construction industry. Residential construction involves the building or remodeling of homes, apartments and similar structures. The program provides the opportunity to learn and apply all phases of the industry with emphasis on carpentry and the related areas of electricity, blueprint reading, and math. Students learn not only by course work, but by spending a large percent of their time working out in the field on our project jobsite. This allows students to gain hands-on experience on an actual construction site. **Students must qualify by taking the Asset Test and filling out an application available in the guidance office. The program earns students 6 high school credits and 9 credits through IWCC.**

***This course is offered for college credit through Iowa Western Community College. Students taking it MUST register with IWCC and have qualifying test scores from the ACT, ASSET, or Compass Test. Any grade below a”C-“ will result in the student reimbursing AHS for tuition and books. Any grade below a “C-“ will not transfer for university credit.**

ARTS

Freshman Choir

Elective

1 credit

Freshman Choir meets every other day. This ensemble is open to students in 9th grade. The primary objectives taught in this course will be as follows: 1) to stimulate an interest and an appreciation of a wide range of music, both as a performer and a listener 2) to develop vocal technique (tone quality, diction, pitch discrimination, etc.) 3) to develop leadership qualities 4) an introduction to high school choral program. Basic musical knowledge will be reinforced. Scheduled performances throughout the school year are required.

Fresh Look Show Choir*

Elective

1 credit

Prerequisite: Freshman Choir member

The Fresh Look Show Choir meets every other day. This is a small ensemble of students selected from the Freshman Choir. Introductory jazz and popular music will be choreographed, rehearsed and performed in concerts and contests.

Concert Choir**Elective****1 credit**

Concert Choir meets every other day. This ensemble is open to students in 10th, 11th, 12th grade. The primary objectives taught in this course will be as follows: 1) to stimulate an interest and an appreciation of a wide range of music, both as a performer and a listener 2) to develop vocal technique (tone quality, diction, pitch discrimination, etc.); 3) to develop leadership qualities 4) a preparatory group for Chamber Chorale. Scheduled performances throughout the school year are required.

Sensations Show Choir***Elective****1 credit****Prerequisite: Concert Choir member - Audition Required**

The Sensations Show Choir meets every other day. This is a small ensemble of students selected from the Concert Choir and Chamber Chorale. They will rehearse and perform musical theater and popular music selections. Choreography will be taught in this ensemble. This ensemble is a preparatory opportunity before students are involved in the varsity ensemble and will serve as a yearlong audition. Scheduled performances and contests throughout the school year are required.

Chamber Chorale**Elective****1 credit**

Chamber Chorale is the premiere Concert Choir at AHS meeting every other day. This ensemble is open to grades 11 and 12 and by audition for sophomores. The primary objectives taught in this course will be as follows: 1) to stimulate an interest and an appreciation of a wide range of music, both as a performer and a listener 2) to develop vocal technique (tone quality, diction, pitch discrimination, etc.) 3) to develop leadership qualities. Scheduled performances and contests throughout the school year are required.

Ambassadors Show Choir***Elective****1 credit****Prerequisite: Chamber Chorale member - Audition Required**

The Ambassadors Show Choir meets every other day. This is a small ensemble that is selected from the Chamber Chorale. They will rehearse and perform popular music of our times and emphasis on performance will be stressed. More difficult and challenging music and choreography will be taught. Scheduled performances and contests throughout the school year are required.

Basic Music Theory**Elective****1 credit****Prerequisite: Permission of instructor and membership in at least one music ensemble course**

This course is designed for those that plan to pursue a collegiate degree or career in music or any other serious music student who wishes to broaden their understanding of music composition. The class will include college entry-level music theory. Theory topics covered will include reading and notating music in all clefs, key signatures, major and minor scales, intervals, triads and seventh chords, inversions of chords, chord progression analysis and basic part writing. Students will use class materials and technology in order to see, hear, and create examples.

Advanced Music Theory**Prerequisite: Basic Music Theory****Elective****1 credit**

Advanced Music Theory is designed to serve the needs of musicians wishing to pursue music as a career through college. This course will cover advanced theory topics, in-depth score analysis and compositional technique.

Music History**Elective****1 credit****Prerequisite: Member of band or choir**

This class is offered to the serious music student or to students wishing to pursue music past high school. It will provide a survey of Western Music History and a general study in form and style. Students will study styles, genres, eras, and composers who represent their styles. Activities will include listening, comparison, evaluations, in-depth composition study, and basic score reading.

Band **Elective** **2 credits**

Prerequisite: Proficiency on a standard instrument

Membership in the high school band program is open to students currently enrolled in 8th grade or high school band. Rehearsals will be held during the regular school day and before school as the situation dictates -- class attendance is required and imperative to the individual's progress. Since the band program strives for continuity and excellence, students must participate in all phases of the program -- students must participate in marching band first semester in order to be in band second semester.

Large group performance opportunities include the Trojan Guard marching band, the symphonic band, and winter pep band. Individual opportunities include All-State Music Festival auditions, small ensemble and solo contest, SWIBA Honor Band auditions, and the Southwest Iowa Honor Marching Band. Students are also expected to participate in the lesson curriculum provided by the instructor in order to complement and enhance class instruction. Assessment will include playing tests over scales and music throughout the year, as well as self-assessments and sectional work. All groups of the instrumental music department follow the guidelines of the Iowa High School Music Association.

Jazz Ensemble* **Elective** **.5 credit**

Prerequisite: Membership in Concert Band and audition

Two sections of Jazz ensemble will be offered to all students currently enrolled in Band. Jazz I is a selective ensemble, comprised of standard big band instrumentation: 5 saxophones, 4 trombones, 5 trumpets, bass, guitar, drums and piano. Jazz II is an open ensemble to any student wishing to participate in Jazz Band. Only standard jazz instruments will be utilized, but any student may choose to learn a new instrument other than their major concert band instrument to participate. Both bands require an audition for placement.

All styles of jazz will be explored in both groups, as well as improvisational techniques and listening skills. Evaluation will primarily be dictated by participation and rehearsal attendance. Jazz I rehearses regularly on Monday, Wednesday, and Friday mornings at 7:30, while Jazz II meets on Tuesday and Thursday mornings at 7:20. Both ensembles perform at home events (Spaghetti Supper, Swing-Inn, and Big Band Dance), as well as various contests.

*** Performance class**

Basic Art **Elective** **2 credits**

Recommended for anyone entering Elementary Education

Basic Art is offered to all students as an elective. The primary purpose of the course is to explore all of the areas of art possible - including drawing, painting, ceramics, calligraphy, poster, art history, and printmaking. Students must also learn art terminology. All tests will be passed with a D or better or will be retaken! First semester must be passed to continue taking art courses. Students will be required to supply various materials.

Drawing 1 **Elective** **1 credit**

Prerequisite: Basic Art or teacher permission if a senior

Available 1st semester only

The purpose of the course is to work with different drawing media. While requiring various graphic skills, students will deal with traditional and contemporary problems of representation, composition, art history and art movements.

Drawing 2 **Elective** **1 credit**

Prerequisite: Basic Art and Drawing 1

Available 1st semester only

The subject matter of this course will be a continuation of Drawing 1 with some emphasis on personal interpretation and development of personal style. This course will be helpful for portfolio construction. Art history and works of various artists will continue.

Painting 1 **Elective** **1 credit**

Prerequisite: Basic Art

Available 2nd semester only

Students will explore basic techniques in acrylic, tempera and watercolor. Students will learn to stretch a canvas for a painting as well as using canvas board. Introduction to various painting styles and artists known for that style are covered.

Painting 2 **Elective** **1 credit**

Prerequisite: Painting 1 and Basic Art

Available 2nd semester only

This course will allow a student to attempt more challenging work in acrylic or watercolor. Students will learn to develop individual style. Study of painting styles, realistic to abstract, will be done.

Ceramics 1 **Elective** **1 credit**

Prerequisite: Basic Art or teacher permission if a senior

Available 2nd semester only

The subject matter will be wheel-throwing and hand-building methods. Students will be required to do a number of hand-building and wheel-throwing assignments. Both useful and nonfunctional objects will be made.

Ceramics 2 **Elective** **1 credit**

Prerequisite: Ceramics 1 and Basic Art

Available 2nd semester only

This course will concentrate on further study in clay construction, emphasizing form and design. Students may work on wheel throwing, hand building or a combination of both techniques.

Photography **Elective** **1 credit**

Prerequisite: Seniors: Basic Art and one other semester of an art course or teacher permission

This course is an introduction to the darkroom, the camera, film, and processing. History of photography and well-known photographers will be studied. Basic techniques of exposure, lighting and laboratory work using black and white film will be covered. Students are strongly encouraged to provide a 35mm camera. Students will pay for printing paper and some film. The rest of the chemicals and film will be provided. There is a limit of 18 students.

Art Portfolio **Elective** **1 credit**

Prerequisite: Teacher permission

This course is designed to provide an opportunity for an art school/college bound student to concentrate on his/her own style in producing projects in the media of his/her choice. Students must have already taken all classes offered in their area of interest.

DRIVER EDUCATION

Driver Education

Elective

.5 credit

Prerequisite: Valid learner's permit

This course is only offered in the summer, but students must register for it in the preceding year. Students having their sixteenth birthday between **June 1, 2009 and June 30, 2010** are eligible for this course. The course will consist of 30 hours of classroom work and 6 hours of behind-the-wheel driving experience. The course is designed to help develop a proper attitude, operation skills, and legal requirements and responsibilities of driving a vehicle in today's society. There is a registration fee that is set by the board of education prior to the beginning of summer classes. This course will meet all the requirements of the Graduated Driver Licensing Program. This course does count in your grade point average.

PHYSICAL EDUCATION & HEALTH

Physical Education*

Required

1 credit

Physical Education is required of all students, unless excused for medical reasons, and must be successfully completed each semester the student is in school. Students are required to furnish their own personal equipment. Activities covered will include a variety of both individual and team sports. Fitness evaluations will be administered two times each year.

Weight Training*

Elective

1 credit

Weight Training is designed for the student interested in improving strength, controlling weight, and learning about the physical structure of the body. The ideal lifting routine is four days a week. Students are encouraged to follow the routine during after school hours if they desire a full lifting regimen. Students are welcome to take the class both semesters. Male and female, athlete and non-athlete, are encouraged to enroll. The course will count as a physical education credit. This course is only available to students in grades 10 – 12.

Health 1 (Physical Wellness)

Elective

1 credit

The major objective of this co-educational course is to provide students with the knowledge, skills, attitudes and understandings needed to prepare them to become more informed, responsible adults regarding health-related issues. The program of study will primarily center around fitness, self esteem, nutrition, stress, coping with a loss, violence, abuse, weight management and eating behavior. Students are encouraged to enroll in Health 2 also.

Health 2 (Mental/Emotional Wellness)

Elective

1 credit

The major objective of this co-educational course is to provide students with the knowledge, skills, attitudes and understandings needed to prepare them to become more informed, responsible adults regarding health-related issues. The program of study will primarily center around understanding drugs, medicines, alcohol, tobacco, illegal drugs, preventing disease, lifestyle diseases, reproduction, pregnancy, development, risks of sexual activity and HIV Aids. Students are encouraged to enroll in Health 1 prior to taking Health 2.

*** Performance Class**

ADVANCED PLACEMENT (AP) ONLINE COURSES

Courses vary by year. Check with your counselor.

Full-Year Courses

AP Calculus AB

Prerequisites: Algebra II, Geometry, Pre-Calculus with Trigonometry

Grade Level: 11-12

In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP Exam and further studies in science, engineering, and mathematics.

AP Statistics

Prerequisites: Algebra II

Grade Level: 11-12

AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

AP Biology

Prerequisites: Biology and Chemistry

Grade Level: 11-12

In AP Biology, students build the conceptual framework necessary to understand science as a process. The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balance of science, technology, and nature. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP Exam and for further study in health sciences.

AP Chemistry

Prerequisites: Chemistry and Algebra II

Grade Level: 11-12

AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through chemical reactions. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP Exam and for further study in science, health sciences, or engineering.

AP Physics B**Prerequisites: Algebra II, Pre-Calculus with Trigonometry****Grade Level: 11-12**

AP Physics B is a non-calculus survey course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students will gain an understanding of physics' core principles and then apply them to problem-solving exercises. They'll learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn, and learn how opticians know how to shape the lenses for glasses. The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering.

AP English Language and Composition**Prerequisites: At least a B-grade in most recent English course****Grade Level: 11-12**

In AP English Language and Composition, students learn to understand and analyze complex styles of writing by reading works from a variety of authors. They'll explore the richness of language, including syntax, imitation, word choice, and tone. They'll also learn about their own composition style and process, starting with exploration, planning, and writing, and continuing through editing, peer review, rewriting, polishing, and applying what they learn to a breadth of academic, personal, and professional contexts. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in communications, creative writing, journalism, literature, and composition.

AP English Literature and Composition**Prerequisites: At least a B-grade in most recent English course****Grade Level: 11-12**

AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition.

AP U.S. History**Grade Level: 11-12**

AP U.S. History analyzes and explores the economic, political, and social changes in America since Columbus. Students master historical knowledge and critical analysis, build reading, writing, and communication skills, and discover how historical events have contributed to American culture. In the process, they'll learn how decisions and events of the past continue to have profound effects on the world today and how knowledge of the causes behind past events can influence future decisions. By the end of the course, students will be ready to put their factual knowledge to work by weighing evidence and interpreting problems presented by historians. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP Exam and for further study in history, political science, economics, sociology, and law.

AP Spanish Language and Composition

Prerequisites: 3-4 years of Spanish or equivalent native fluency

Grade Level: 12

AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature.

One Semester Courses

AP Psychology

Prerequisites: Biology

Highly Recommended: High School Psychology

Grade Level: 11-12

AP Psychology provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They'll study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP Exam and for further studies in psychology and life sciences.

AP Macroeconomics

Prerequisites: Algebra II

Grade Level: 11-12

AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP Exam and for further study in business, political science and history.

AP Microeconomics

Prerequisites: Algebra I

Grade Level: 11-12

In-House AP Courses

AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP Exam and for further study in business, history, and political science.

AP U.S. Government and Politics**Prerequisites: U.S. History****Grade Level: 12**

AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP Exam and for further study in political science, law, education, business, and history.