

**STUDENT  
COURSE  
SELECTION  
GUIDE**

**2012 – 2013**

This Course Selection Guide has been prepared to help students plan for their futures. Planning a high school program is a major task that every student and parent must face. However, it is the responsibility of the guidance counselor to review all aspects of each student's record and to assist in guiding that individual in the development of an appropriate program of study.

Planning next year's course of study is the primary task now at hand. Please use this Guide as an introduction to the courses Arlington High School will offer next year. A review of the course descriptions found on the following pages should be the beginning stage of each student's investigation. Department coordinators and teachers should be consulted regarding the requirements and depth of study included within each potential course. All questions related to course selections should be referred to the guidance office.

Please make full use of this Guide in planning a program and rest assured that all Arlington personnel are eager and willing to be of assistance. Please be advised that the school reserves the right to withdraw any course in which there is an insufficient enrollment.

As the Board of Regents and the State Education Department move forward with efforts to raise standards, changes in course offerings and descriptions may occur.

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**REQUIREMENTS FOR HIGH SCHOOL GRADUATION**  
*(for students entering grade 9 in September 2007 and thereafter)*

**Regents Diploma**

**Test Requirements**

English Regents  
Algebra Regents  
Global History Regents  
US History Regents  
Science Regents  
Foreign Language 8<sup>th</sup> grade examination

**Advanced Regents Diploma**

**Test Requirements**

English Regents  
3 - Math Regents  
Global History Regents  
US History Regents  
2 - Science Regents  
Foreign Language level 3 final examination

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**Course Requirements**

4 credits in English  
4 credits in Social Studies  
3 credits in Math  
3 credits in Science  
2 credits in Physical Education  
1 credit in Art and/or Music  
.5 credit in Health  
1 credit in Foreign Language

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**Course Requirements**

4 credits in English  
4 credits in Social Studies  
3 credits in Math  
3 credits in Science  
2 credits in Physical Education  
1 credit in Art and/or Music  
.5 credit in Health  
3 credits in Foreign Language  
or  
5 units in Occup. Ed or the Arts

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completed 22 credits

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completed 22 credits

The requirements listed above are meant to serve as a guide only and are not inclusive of all the various program options available. Please contact your guidance counselor with questions.

## ADVANCED PLACEMENT COURSES

A course requirement for any Advanced Placement Course is the Advanced Placement examination given in May. A satisfactory score could earn college credit, advanced standing or both. There is a fee for the AP exam which will be paid by the student. Failure to take the AP exam will result in an automatic 50% final grade for the course. If financial assistance is needed, please see your teacher or guidance counselor for more information.

## HIGH SCHOOL CREDIT FOR COLLEGE COURSES

Some students may wish to enroll in selected courses at area colleges prior to high school graduation. Students are responsible for all tuition and fees. The evaluation of credit for such college course work will be based on the following criteria:

One half unit is acquired by the successful completion of a subject for one semester. One quarter credit is acquired by the successful completion of a Physical Education course for one semester. All grades for college courses taken outside of Arlington High School, with the exception of any college course taken to meet the Health requirement, will be recorded as the letter grades received from the college and will not be included in GPA and class rank. Any college course taken to meet the Health requirement will be recorded as a factor 8 and the letter grade will be converted to a numeric grade based on the scale shown below and will be included in GPA and class rank.

A+ = 99	B+ = 89	C+ = 79	D+ = 69
A = 95	B = 85	C = 75	D = 67
A- = 91	B- = 81	C- = 71	D- = 65

**PRIOR APPROVAL OF THE COURSE BY THE HIGH SCHOOL GUIDANCE COUNSELOR IS REQUIRED FOR COURSES TO BE USED FOR GRADUATION REQUIREMENTS.**

## THE MARIST/ARLINGTON BRIDGE PROGRAM

This program offers seniors the opportunity to fulfill their high school graduation requirements while simultaneously completing a full year of college work during their senior year at Arlington. Acceptance into the program is contingent upon the successful completion of a student's junior year. Students must also meet the conditions of Arlington course prerequisites.

Seniors are required to take AP English 12 Literature & Composition on the Arlington High School campus taught by a high school faculty member under the supervision of Marist College. Students will be allowed to take up to 15 credits plus lab courses each semester. Four courses will be taught on the Marist College Campus by Marist professors. Students are responsible for all tuition and fees. All courses taken at Marist will not be included in GPA and class rank.

## CLASS RANK/FACTOR

Each course is assigned a factor. Weighting factors appear to the right of the course title. Factors are 10=AP, 9=Honors, 8=Regents/College Prep, 7=School. The formula is  $GPA = \frac{\text{sum of (grade} \times \text{factor} \times \text{credit)}}{\text{total credit (excluding pass/fail courses)}}$ . The average listed on the transcript is an average based on the GPA divided by 8, the college prep factor.

## CONDITIONS FOR PASS/FAIL OPTION

All students are eligible to select from the available pass/fail electives. The option is restricted to one course per semester and a maximum of one credit per year.

Once a student selects a pass/fail option, no numerical grade for the course will appear on report cards or permanent records. Although students must fulfill the requirements of the course, quarterly and final grades are reported merely as P for passing or F for failing. Grades for class work, homework, tests, etc., will be maintained by the instructor as they are for any other student.

Pass/fail option application forms are available in the guidance office. It is the responsibility of the student applicant to file the completed forms in duplicate (one for guidance; one for the course instructor) **one week before the last day of the first marking period of that course**. All forms must be signed by a parent or guardian of the application, thus authorizing the student to enroll in a course on a pass/fail basis.

If the number of requests for a given course exceeds the maximum enrollment figures, priority will be given to students who are taking the course for numerical grades.

## INDEPENDENT STUDY PROGRAM

### General Guidelines

The purpose of the Independent Study Program is to offer the student an opportunity for program enrichment. It is not to be substitute for regular school offerings and cannot be used to satisfy core and sequence requirements.

Enrollment in Independent Study will be affected by student interest availability of an advisor, and the student's demonstrated ability to complete successfully his or her other subjects while pursuing Independent Study. Independent Study grades are Pass/Fail. No numerical grades are given.

The student must secure the form for Independent Study from the guidance counselor. The student must return the completed form (which includes the written approval of the sponsoring teacher, counselor, department coordinator, parent and principal) to the counselor by the end of the 4th week of the semester in which the program will commence. Following application approval, the student is expected to complete his or her work in accordance with the procedure outlined in the application and within the specified time limits. Independent Study in Physical Education, under certain criteria, is available.

## ALTERNATIVE CREDIT

A student may earn a maximum of 6 ½ units of credit for either a Regents or local diploma without completing units of study for such units of credit, if:

- (i) Based on the student's past academic performance, the superintendent of a school district or the chief administrative officer of a nonpublic school, or his or her designee, determines that the student will benefit academically by exercising this alternative;
- (ii) the student achieves a score of at least 85 percent, or its equivalent as determined by the commissioner, on a State developed or State-approved assessment pursuant to section 100.2(f);
- (iii) the student passes an oral examination or successfully completes a special project to demonstrate proficiency, in such knowledge, skills and abilities normally developed in the course but not measured by the relevant Regents examination or State-approved examination if used, as determined by the Principal, and;
- (iv) the student attends school, or received substantially equivalent instruction elsewhere, in accordance with section 3204(s) of the Education Law, until the age of 16, pursuant to section 3204 and 3205 of the Education Law.
- (v) All applications for Alternative Credit are due in the Guidance office no later than June 1<sup>st</sup>.

## SCHEDULE CHANGES

Student schedules are planned in consultation with guidance counselors. Changes should be requested only after serious consideration and the approval of a parent or guardian has been given.

Due to class size limitation and/or scheduling conflicts, it may be necessary to alter a student's first choice course selections. Students should be prepared to choose alternative courses.

## NCAA

NCAA requires students to meet a minimum core eligibility requirement. Not all Arlington High School classes will satisfy this requirement. Courses not meeting eligibility standards will be noted with this statement, ♦ This course does not meet NCAA eligibility standards, at the bottom of the course description. For more information visit [www.ncaa.org](http://www.ncaa.org) .

## **ENGLISH**

All students will be responsible for demonstrating English language proficiency on a statewide Comprehensive Regents Examination. The English department will offer curricula that will provide students the opportunity to participate in programs that offer challenging academic experiences.

### **ENGLISH COURSE OF STUDY**

The English curriculum course of study (Grades 9-12), referred to by the NYS Standards for English Language Arts as the "Commencement Level of College and Career Readiness," will provide the foundation that is essential to the development of analytical thinking, reading, listening, writing, and speaking skills.

Students will become skilled readers and listeners of prose, poetry, and expository text written in a variety of periods, disciplines, and rhetorical contexts, and skilled writers and speakers who communicate for a variety of purposes.

Both their reading/listening and writing/speaking should make students aware of the interactions among a writer's purposes, the audience's expectations, and the subject matter.

Students will write and speak in a variety of forms - narrative, descriptive, expository, argumentative - and on a variety of subjects from personal experiences to public policies, and from imaginative literature to popular culture.

Students will engage in personal and reflective writing and speaking that fosters the development of confidence and voice in any context.

Library skills will be developed through a variety of extended research projects at all levels of instruction.

Performance indicators, assessing student performance throughout all grades levels, will serve as the basis for the development of a "commencement" portfolio to be used as a final assessment for all course offerings.

### **FOUNDATIONS OF READING & WRITING**

Students with specific educational needs will be assigned to the Foundations of Reading & Writing program. A personalized educational plan will be designed by a Certified Reading Teacher to accommodate students' academic needs and learning styles. Additional time on task and instruction will be provided in a small group environment.

ENGLISH REGENTS

(Factor 8)

1080 Grade 9-Regents

1130 Grade 10-Regents

1180 Grade 11-Regents

\*\* Senior Electives

With consideration to the aforementioned description of the English Course of Study, students in the REGENTS (three-year) program will have the opportunity to satisfy the NYS requirement in English Language Arts by demonstrating proficiency with the Comprehensive Examination in English in the June of their JUNIOR year. \*\*An additional year of English will be required in their SENIOR year to satisfy commencement requirements.

Students will be expected to:

read and listen to an extensive series of complex and challenging multi-genre literature and expository texts.

write and speak about literature that reflects a richness of language and analytical complexity.

develop library skills through a variety of extended research projects at all levels of instruction.

Formal extended research projects:

- |          |  |
|----------|--|
| Grade 9  | “A Person Worth Knowing”                   |
| Grade 10 | Mythology or “An Event Worth Knowing”      |
| Grade 11 | American Author or “A Topic Worth Knowing” |
| Grade 12 | design based on senior elective            |

engage in an independent extended reading experience during the summer session of each year prior to placement in the next level of the REGENTS program.

1100 Grade 9-Honors

Prerequisite: A final average of 90 or better

1150 Grade 10-Honors

Prerequisite: A final average of 80 or better in English 9 Honors or a final average of 90 or better in English 9 Regents.

Students who want to take English Honors or an AP level English course, but do not meet the prerequisite will be reviewed on a case by case basis by the English Department Coordinator and the Executive Principal of Arlington High School.

With consideration to the aforementioned description of the English Course of Study, students who seek the challenge of an HONORS program will have the opportunity to satisfy the NYS requirement in English Language Arts by demonstrating proficiency with the Comprehensive Examination in English in January of their JUNIOR year.

Students will be expected to:

- Read and listen to an extensive series of complex and challenging multi-genre literary and expository texts.
- Write and speak about literature in a way that reflects a richness of language usage and a complexity of analysis.
- Develop library skills through a variety of extended research projects at all levels of instruction.
- Engage in an independent extended reading and writing project during the summer session prior to each year of participation in the HONORS program. This will be an integral part of the curriculum which will begin for students with placement in the ninth grade program.
- Consider the successful completion of the AP English 11 Language and Composition and/or AP English 12 Literature and Composition examination as an ultimate objective.
- Formal extended research projects
 

Grade 9	“A Person Worth Knowing”
Grade 10	Mythology or “An Event Worth Knowing”
Grade 11	American Author or “A Topic Worth Knowing”
Grade 12	design based on senior elective

1220 AP ENGLISH 11 LANGUAGE & COMPOSITION (1 Unit - Full Year) (Factor 10)

Prerequisite: A final average of 80 in 10 Honors or a final average of 90 in English 10 Regents. A teacher recommendation based on previous coursework is highly recommended.

Students who want to take English Honors or an AP level English course, but do not meet the prerequisite will be reviewed on a case by case basis by the English Department Coordinator and the Executive Principal of Arlington High School.

Description: Students in this college-level course will have previously demonstrated strong writing and analytical skills. Students read and carefully analyze a broad and challenging range of prose selections, and develop their awareness of how language works. Through close reading and frequent writing, students develop the ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. The reading assignments will feature expository, analytical, and argumentative essays from a variety of authors and historical contexts, as well as an examination and response to American literature. **The AP exam is required.**

Requirements: Satisfactory completion of written and oral assignments, tests, class participation based on reading assignments, extended research project, a final examination and the AP English Language and Composition Examination.

**STUDENTS WILL HAVE AN OPPORTUNITY TO SELECT COURSES IN THE SENIOR ELECTIVE PROGRAM UPON COMPLETION OF THEIR GRADE 11 ENGLISH REQUIREMENT. COURSES ARE OFFERED AS FULL YEAR OR SEMESTER OPTIONS.**

## **SENIOR COURSES**

**College Preparatory English 12 and Advanced Placement English 12 Literature & Composition are full year courses. Students who do not elect to take a full year Senior English course must take two single-semester courses. Students are asked to select one course for each semester. At least one selection must be a multi-genre literature course; that is, a course which includes more than one type of literature such as poetry, the essay, the novel, drama, etc. Multi-genre courses are starred.**

## FULL YEAR OPTIONS:

\*1260 COLLEGE PREPARATORY ENGLISH 12 (1 Unit - Full Year) (Factor 8)

Description: This course of study is a comprehensive college preparatory curriculum that will include active reading, writing, and discussion of American and English literature. Extensive writing in the form of essays, compositions, and reaction papers will also be emphasized. A research paper will reflect collegiate expectations.

Requirements: Daily reading and discussion, frequent writing tasks, class participation, research project, and a final examination.

\*1270 AP ENGLISH 12 LITERATURE & COMPOSITION  
(1 Unit - Full Year) (Factor 10)

Prerequisite: A final average of 80 or better in AP English 11 or a final average of 90 or better in English 11 Regents. A teacher recommendation based on previous coursework is highly recommended.

Description: Students in this college-level course will have previously demonstrated strong writing and analytical skills. Students read and carefully analyze a broad and challenging range of prose selections, and develop their awareness of how language works. Through close reading and frequent writing, students develop the ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. This course emphasizes a chronological approach to English literature and a concentration on three literary genres: the novel, drama, and poetry. College credit may be earned for this course through the Marist Bridge Program. **The AP examination is required.**

Requirements: Satisfactory completion of written and oral assignments, tests, class participation based on reading assignments, extended research project, a final examination and the AP English Literature and Composition Examination.

Textbooks (teacher selected and not limited to:) *Norton Anthology of English Literature*, *The English Tradition: Poetry*, selected reading from *Seven Famous Greek Plays*, *The Canterbury Tales*, selected reading from Shakespeare (*King Lear* and / or *Macbeth*), Shaw, Swift and Dostoevsky. In addition, Faust, *Other Voices-Other Vistas*, Vintage Book of Contemporary World Poetry, readings from Chekhov, Beckett, Ibsen, Sartre, and free choice books from selected lists are used.

## HALF – YEAR OPTIONS:

(\* = Multi – genre. A student must select one multi-genre course if a student is pursuing two half year courses. A student can select two multi – genre course if desired.)

\*1280 ENGLISH 101: COMPOSITION I (1/2 Unit – 1 Semester) (Factor 9)

Description: English 101 concentrates on expository and argumentative writing, traditional rhetorical modes, and effective composing, revising, and editing strategies. English 101 covers MLA conventions, and a research paper is required. Critical thinking and reading skills are also evaluated. **English 101 is the first credit course in the DCC Writing Program and is required in all DCC degree programs and most certificate programs. The prerequisite for the course is placement through DCC admissions test scores. Students must earn a C or better to advance to English 102 and are granted three college credits from Dutchess Community College.**

Writing Assignments: English 101 assignments consist of a variety of formal and informal writing. The formal writing includes analytical or persuasive writing. Students are required to make references to several texts included in the textbook for the class. Each essay is focused writing with a clear thesis, well-developed paragraphs organized around a topic sentence, and supporting details. Essays start in class and are developed through a process of brainstorming, drafting, revising, and editing. Another requirement is a research paper that is written over several weeks and undergoes a longer process of substantial prewriting, drafting, and revision.

The final examination is given in class at the end of the semester. Students will make direct references to textual material and include correct citations according of the MLA style and a Works Cited page.

Textbooks: An anthology of expository essays selected by the English 101 Committee at Dutchess Community College will be used. In addition, students will use a writing handbook which is a valuable resource for student writers, offering an overview of essay structure, review of grammar rules, description of the research process, rules of MLA documentation, and glossary of usage principles.

\*1281 ENGLISH 102: COMPOSITION II

(1/2 Unit – 1 Semester)

(Factor 9)

Prerequisite: Successful completion of English 101 with a C grade or better.

Description: This course is a continuation of English 101, which further emphasizes well-constructed and developed written composition, factually supported conclusions, and the use of precise and varied language. It also serves as an introduction to three genres of literature: short fiction, poetry, and drama. A research paper is required. Students should use MLA documentation for in-text citations and a Works Cited page. **Upon successful completion of this course with a C grade or better, students are granted three college credits from Dutchess Community College.**

Writing Assignments: The writing assignments in English 102 reinforce the skills students acquire in English 101. Students write formal essays both in and out class, and informal writing, which consists of quizzes, responses, and journal entries. Students write four short expository and analysis essays in response to a variety of literary genres. Within each essay, students analyze and explicate several literary texts and, as in English 101, incorporate these sources correctly according to the MLA style, using both in-text citations and a Works Cited page. Each essay will have a clear thesis, well-developed paragraphs organized around a topic sentence, and supporting details. Essays start in class and are developed through a process of brainstorming, drafting, revising, and editing. In the process of explicating a literary text, students use the methods of literary analysis appropriate to each genre and become proficient in using and identifying literary terms. Students will work through a careful process of evaluating, summarizing, quoting, paraphrasing, and citing sources correctly according to the MLA style.

The final examination given in class includes several forms of writing written in class analyzing or explicating at least one of the texts discussed in class during the semester.

\*1240 PRACTICAL SENIOR ENGLISH 12

(1/2 Unit – 1 Semester)

(Factor 8)

Description: This course of study is a one semester elective course that provides students with a pragmatic English curriculum. Most of the units of study are career oriented. Students will explore career options through a research project, a current event report, a magazine analysis project, and other interesting assignments. The novels and short stories all address real world issues, and class discussions will address these important topics. The class includes creative writing, including an autobiography project.

Requirements: Reading includes five novels, a short story unit and a poetry unit. The course utilizes newspapers, magazines, letters, and other texts. The course includes an extensive Regents and RCT review unit, too. Other assignments include a major library research paper, thesis paper, expository essays, and a host of other formal and creative writings. The course culminates with a major autobiography project. This course includes a strict attendance grade for each quarter.

◆ This course does not meet NCAA eligibility standards.

\*1290 READING NONFICTION

(1/2 Unit - One Semester) (Factor 8)

Description: This course will focus on real life experiences. Students will be expected to read from a variety of true-life adventures and travel experiences. Readings will be taken from magazines, anthologies, newspapers, books, and essays. Film media will also provide the basis for discussion and critical thinking. This course will be developed in accordance with the NY State Education Department standards for reading/listening and speaking/writing.

Requirements: Daily in-class reading, weekly writings, regular participation in class discussions, and a final examination.

◆ This course does not meet NCAA eligibility standards.

\*1320 CONTEMPORARY LITERATURE

(1/2 Unit - 1 Semester) (Factor 8)

Description: This course will provide an opportunity for students to interact independently, in small groups, and as a total class, with literature that reflects the varied, exciting, and frequently complex world of adolescence. It will deal with selected short stories and novels from some of the well known contemporary authors of young adult literature. Oral and written projects will elicit a more thought provoking analysis of the literature. Students will develop a degree of sensitivity to young adult literature in terms of its treatment of humanistic values, development of moral perspective, respect for individual autonomy, and the ability to reason. Students will also gain an awareness of how literature can assist in forming a moral character.

Requirements: Journal writing, weekly writing on a variety of topics generated by the reading, class participation through discussions and projects, and a final exam project.

\*1330 SPORTS IN LITERATURE

(1/2 Unit - 1 Semester) (Factor 8)

Description: This course consists of an examination of sports from several perspectives through interaction with literature presented by sports columnists, the media, and contemporary authors. Reading in this course will be both pleasurable and thought provoking, covering a range of modern fiction, non-fiction, poetry, biographies, and commentaries. Writing assignments will be descriptive and critical in an attempt to provide the student with opportunities to express personal reactions with confidence and clarity. Through the use of sports literature, the student will develop a greater sensitivity to the world of sport and the relationship between that world and contemporary society.

Requirements: Individual reading, weekly writing, writing conferences with the teacher, a library research project, and a portfolio assessment.

◆ This course does not meet NCAA eligibility standards.

\*1340 CHILDREN'S LITERATURE

(1/2 Unit – 1 Semester)

(Factor 8)

Description: The focus of this course is on reading and analyzing literature for children, aged birth to 12. Students will learn about the characteristics of good children's literature and read a vast array of primary texts including, but not limited to, short tales, poetry, picture books, and chapter books. We will also examine the style and illustrations of contemporary as well as classic picture book illustrators. Students will be required to complete a substantial amount of reading in order to have a vast knowledge of children's literature and strong understanding of the role it plays in developing deep interests and solid habits in reading.

Requirements: Reading assignments will include textbook reading in addition to children's stories, poetry, picture books, and chapter books, both independently selected and teacher assigned. Writing assignments will include: analytical essays on selected children's literature and thematically related topics; daily journal writing; and a research project. Class work will include class discussions, and cooperative literature circles, quizzes, a mid-term and a final exam.

◆ This course does not meet NCAA eligibility standards.

\*1351 BRITISH LITERATURE

(1/2 Unit - 1 Semester)

(Factor 8)

Description: This course includes a general survey of English literature, including the Anglo-Saxon Period, the Medieval Period, the Elizabethan Period, the Seventeenth Century, the Eighteenth Century, the Romantic Period, and the Victorian Period. Emphasis is on the understanding of and appreciation for poetry, especially from the Seventeenth Century, the Romantic Period, and the Victorian Period. There is also in-class emphasis on such works as Chaucer's Canterbury Tales and Shakespeare's Macbeth.

Requirements: Satisfactory completion of assignments, tests, essays, and a final examination.

Textbooks: *Adventures in English Literature*

\*1360 WOMEN IN LITERATURE

(1/2 Unit - 1 Semester)

(Factor 8)

Description: This course of study will examine writings by and about women. Through the use of fiction, poetry, essays, speeches, and newspaper and magazine articles, students will explore the changing role and image of women in literature. Course material will emphasize North American literature, with some time devoted to women's writing from other parts of the world. A historical/literary chronology will be presented. This course will be developed in accordance with the NY State Education Department standards for reading/listening and speaking/writing.

Requirements: Class readings and writings, and individual written and oral presentations.

\*1390 AFRICAN-AMERICAN LITERATURE (1/2 Unit - 1 Semester) (Factor 8)

Description: This course of study will examine fiction, poetry, essays, and speeches by African-American writers. It will analyze the portrayal of this group from Colonial times to the present. Material will be presented chronologically with emphasis on the Harlem Renaissance, the 1960's, and the present. This course was developed in accordance with the NY State Education Department standards for reading/listening and speaking/writing.

Requirements: Class readings and writings, and individual written and oral presentations.

\*1460 WAR IN LITERATURE (1/2 Unit – 1 Semester) (Factor 8)

Description: This course is an intensive journey through the effects of war on both American and international societies throughout history as portrayed through literature. This one semester course will provide an examination of war from various perspectives through interaction with literature presented by; wartime columnists, classical texts, world renowned masterpieces, contemporary authors, and various other media venues. Readings have been selected to be both pleasurable and thought provoking, covering a range of modern fiction, non-fiction, poetry, biography, interview, commentary, and classical resources.

Requirements: Written responses are designed to be expressive, descriptive, narrative, and critical in an attempt to provide students with the opportunity to share personal reactions with confidence and clarity. Through the use of literature and other media forms, the primary objective of the course is to generate comprehensive reading, writing, listening and speaking skills. A research project and a final portfolio assessment are included.

\*1470 SHAKESPEARE (1/2 Unit – 1 Semester) (Factor 8)

Description: This course is perfect for students that enjoy reading/performing Shakespeare plays. Whether you know a lot about Shakespeare or just a little, everyone is welcomed to take this class. This course will include some of his famous plays, as well as some of his more obscure plays. This class will give you the foundation you need to enjoy Shakespeare for the rest of your life.

Requirements: The class includes reading and performing Shakespeare's plays. Students will also watch several plays on video. There is an exam at the end of each play. There are a few essays and projects. There is a final exam at the end of the course.

## **SINGLE – GENRE:**

A student can only select one single genre elective if pursuing two half year courses. Students **CANNOT** select two single-genre electives.

### 1410 CREATIVE WRITING

(1/2 Unit - 1 Semester)

(Factor 8)

Description: This course is open to students who would like to explore the discipline of creative writing and be willing to share their writing within the classroom. Lessons will include daily writing assignments and/or the development of various literary elements and techniques pertinent to the writing of such genres as: memoirs, short stories, fairy tale adapted one act dramas, editorials, and poetry.

Requirements: Satisfactory completion of daily assignments, daily writing journal entries, and the major writing projects. Students will share, edit, and revise their writing individually and in peer writing groups. Final exam grade will be the contents of the writing folder: the major writing assignments.

### 1440 POETRY

(1/2 Unit - 1 Semester)

(Factor 8)

Description: This course includes an introduction to major contemporary and classical poets, poetic forms, and techniques, the language and music of poetry, and the exploration of personal preferences in poetry. The course emphasis is on: 1. Reading: poetry assigned and of choice, poet biographies, and other published work. 2. Analysis and interpretation of poetry presented in writing and orally. 3. Writing personal poetry and completion of other assigned poetry forms and styles. 4. Participation in writing groups and in class activities.

Requirements: Maintaining a daily writing journal, successful completion of daily assignments, and graded projects as the final portfolio assessment/final exam grade.

### 1450 PUBLIC SPEAKING

(1/2 Unit - 1 Semester)

(Factor 8)

Description: This beginning course in public speaking is devoted to the study of effective speech making. It is designed for students who already feel confident in front of a group, as well as for students who want to increase their self-confidence. Students will be required to write and to present a variety of speeches. **STRONG WRITING SKILLS ARE ESSENTIAL.** Students considering careers in communication, law, business, or teaching will find this course beneficial. The final will include a written examination in addition to a speech.

## SOCIAL STUDIES

All students are responsible for completing 4 years of social studies required course work. All students must successfully demonstrate proficiency in Global History and Geography and United States History and Government on the Regents examinations in these courses. All course work is based on the New York State Social Studies Standards.

### GENERAL EXPLANATION OF LEVELS:

Regents Level

(Factor 8)

These courses, which require reading and writing skills at grade level, stress concepts and general themes in history through the use of a wide range of materials and media. They further develop and refine reading and writing ability as well as research and analytical skills. All students must pass the Regents examination in Global History and Geography and the Regents examination in United States History and Government to satisfy the Regents Social Studies exam requirement and earn a Regents diploma.

Honors Level

(Factor 9)

Advanced Placement Level

(Factor 10)

Certain prerequisites must be met in order to take Honors or Advanced Placement level courses.

An average of 90 is required for entrance into 9<sup>th</sup> grade Global History Honors. Students should be prepared for a required summer reading assignment.

Students in Honors Global History in 9<sup>th</sup> grade will be eligible for placement in 10<sup>th</sup> grade Global History Honors if they have a final grade of at least 85. Students in Regents Global History in 9<sup>th</sup> grade must have a final grade of at least a 90 to be placed in 10<sup>th</sup> grade Honors.

Students in Global History 2 Honors will be considered for placement in A. P. United States History if they have a final average of at least 85. Students in Global History 2 Regents must have a final average of at least 90 to be considered for placement in A. P. United States History, in addition to meeting other criteria.

Students in Honors or Advanced Placement Social Studies courses will have the opportunity to acquire the sophisticated skills required of the social scientist. In the 9<sup>th</sup> grade, note taking and library research skills required for term papers will be taught. In 10<sup>th</sup> grade, emphasis will be placed on learning how to utilize a bibliography (first semester), and how to research and write a term paper (second semester). In the 11<sup>th</sup> grade A. P. U. S. History course, students will write a series of critical analysis papers and be trained to master the writing skills required by the AP exam. In addition, a summer assignment is required for each of the Honors and AP courses. Students enrolled in Honors and AP courses will still be required to take and pass the Regents examinations in Global History and United States History. AP courses at 11<sup>th</sup> and 12<sup>th</sup> grade also provide the opportunity to earn college credit(s) in the social sciences. **The AP exam is a requirement for all AP courses.**

## REQUIRED COURSES

### Grade 9

2040	<u>Global History 1 R</u>	(1 Unit – Full Year)	(Factor 8)
2060	<u>Global History 1 H</u>	(1 Unit – Full Year)	(Factor 9)

Global History 1 is a full year course required of all Freshmen. It is structured to give the student an understanding of world history, geography and culture with a concentration on the following regions: Africa; the Middle East; India and South Asia; China, Japan, and East Asia; and Southeast Asia.

All students will be prepared to take a school administered final examination after one year of Global History.

### Grade 10

2140	<u>Global History 2 R</u>	(1 Unit – Full Year)	(Factor 8)
2160	<u>Global History 2 H</u>	(1 Unit – Full Year)	(Factor 9)
2420	<u>AP World History</u>	(1 Unit – Full Year)	(Factor 10)

Global History 2 Regents or Honors is a full year course required of all sophomores. It examines the geography and history as well as the economic, social, and political development of Europe, Russia, and Latin America.

All students will be prepared to take the Global History Regents examination in 10<sup>th</sup> grade after two years of Global History. Successful completion of the Regents examination in Global History is required for a New York State diploma.

<u>2420 AP WORLD HISTORY</u>	(1 Unit - Full Year)	(Factor 10)
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A final average of 85 in Global History 1 Honors or a final average of 90 in Global History 1 Regents is a prerequisite for taking AP World History

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to 1000 C.E. Periods of history, explicitly discussed, form the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. Sophomores who take AP World must also pass the Global Studies Regents in June. **The AP examination is required.**

## Grade 11

2240	<u>United States History and Government R</u>	(1 Unit – Full Year)	(Factor 8)
2260	<u>AP US History &amp; Government</u>	(1 Unit – Full Year)	(Factor 10)

### 2240 UNITED STATES HISTORY AND GOVERNMENT

United States History and Government is a full year course required of all Juniors. It is a chronological course divided into five units: the Constitution; Industrialization of the U. S.; Prosperity, Depression and War, 1917-1940; the U. S. in the Age of Global Crisis; and a World in Uncertain Times. A major theme throughout the year is recognizing basic constitutional principles and applying them to both historical and contemporary events.

All students will be prepared to take the United States History and Government Regents examination in 11<sup>th</sup> grade. Successful completion of the Regents examination in United States History and Government is required for a New York State diploma.

### 2260 AP UNITED STATES HISTORY

AP U. S. History focuses on the political, economic, social, and cultural development of the United States from 1607 to today. Major trends and themes in American history are examined in depth over the course of the year and an emphasis is placed on learning to write analytically. This course provides an excellent background for the U. S. History SAT II Test, which is administered in the spring each year. Successful completion of the Regents Examination in U. S. History and Government is required. **The AP exam is also required.**

Because of the ambitious nature of this course, extensive readings and research are required. Students should be prepared to allocate a significant amount of time to this course.

## Grade 12

For the 4<sup>th</sup> year of mandated Social Studies, each senior must take BOTH **Economics** and **Participation in Government**, unless the students has already received credit for the same or a similar course. Only those juniors who are graduating early will be able to take these courses while enrolled in U. S. History and Government. Senior level required courses or electives are not open to freshmen or sophomores.

2320	Economics R	(1/2 Unit - 1 Semester)	(Factor 8)
2325	Eco 105: Economic Issues	(1/2 Unit – 1 Semester)	(Factor 9)
2300	Economics in the Real World	(1/2 Unit - 1 Semester)	(Factor 8)
2270	AP Macroeconomics	(1/2 Unit - 1 Semester)	(Factor 10)
2280	AP Microeconomics	(1/2 Unit - 1 Semester)	(Factor 10)
2350	Participation in Government	(1/2 Unit - 1 Semester)	(Factor 8)
2353	Civic Action and Leadership	(1/2 Unit - 1 Semester)	(Factor 8)
2355	Gov 121: American National Experience	(1/2 Unit - 1 Semester)	(Factor 9)
2330	Rights and Responsibilities	(1/2 Unit - 1 Semester)	(Factor 8)
2370	AP United States Government	(1/2 Unit - 1 Semester)	(Factor 10)
2380	AP Comparative Government	(1/2 Unit - 1 Semester)	(Factor 10)

2320 ECONOMICS R (1/2 Unit - 1 Semester) (Factor 8)

Basic economic concepts and themes, which all people need to know in order to function effectively as participants in the U. S. and world economy, are the focus of this course. It includes three major units of study: Economic Theory, Finance and the Enterprise System, and Entrepreneurship. It identifies key concepts and terms from economics, finance, and business.

2325 ECO 105: ECONOMIC ISSUES (1/2 Unit – 1 Semester) (Factor 9)

This course allows students to simultaneously complete NYS requirements for high school and earn DCC (Eco 105) credit. The prerequisite for this class is the successful completion of the Compass test used by Dutchess Community College to determine student placement.

In this class, students will engage in activities to develop their economic literacy. Student will apply economic reasoning to evaluate national policies. Topics of analysis will vary to reflect current economic issues, and will require some independent reading and research on contemporary issues. Students who successfully complete the course will earn three college credits from Dutchess Community College with no additional cost. Student may however, be required to purchase a textbook or other materials for the course.

2300 ECONOMICS IN THE REAL WORLD (1/2 Unit - 1 Semester) (Factor 8)

Selection of students eligible for this course will be made by the Social Studies Department and will generally include students who have experienced or are experiencing difficulty in meeting the Regents requirement in Global History or U. S. History and Government.

In Economics In The Real World, students develop a greater understanding of basic economic concepts as well as practical skills necessary to be successful in the marketplace. Students will understand how they influence the private enterprise system as a consumer and producer.

◆ This course does not meet NCAA eligibility standards.

AP ECONOMICS

A final average of 90 in United States History and Government Regents or a final average of 80 in AP United States History and Government is required to take these courses.

AP Economics is two distinct, semester-long courses: Macroeconomics and Microeconomics. Each course has a separate AP exam offered in May and provides the opportunity to earn college credit. Students can meet their economics requirement by taking one of the courses, but are not limited to taking only one or the other.

Because of the ambitious nature of these courses, extensive readings and research are required. Students should be prepared to allocate a significant amount of time to these courses.

2270 AP MACROECONOMICS (1/2 Unit – 1 Semester) (Factor 10)

The purpose of macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course includes a study of national income; price determination; economics performance measures; economic growth; and international economics. **The AP exam is required.**

2280 AP MICROECONOMICS (1/2 Unit – 1 Semester) (Factor 10)

The purpose of microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economics systems. The course includes a study of product and factor markets; role of the government; economic efficiency; and economics equity. **The AP exam is required.**

2350 PARTICIPATION IN GOVERNMENT

(1/2 Unit - 1 Semester)

(Factor 8)

This course emphasizes the interactions between citizens and the government at all levels - local, state and federal. A focus in this course is an understanding of political parties, voter behavior, and the election process. Mass media and interest groups are investigated to identify their influence. Student participation in the process of government through field trips, and involvement in some aspect of school, community, or government service will be encouraged.

2353 CIVIC ACTION AND LEADERSHIP

(1/2 Unit – 1 Semester)

(Factor 8)

The Civic Action and Leadership course affords students an opportunity to develop civic and leadership skills through the development of a service project, while satisfying NYS requirements for seniors in Participation in Government. In conceiving, planning, coordinating, and implementing an action place to address a school or community issue, students will develop different skills essential for active citizenship and leadership in the United States. Lessons in the course will cover such topics as civic responsibility, roles and skills of prominent leaders, as well as cooperative skills and problem-solving strategies. The course will require students to complete different service activities outside of class, and will have a semester-long portfolio assessment based on the service project.

2355 GOV 121: AMERICAN NATIONAL EXPERIENCE (1/2 Unit – 1 Semester)(Factor 9)

This course allows students to simultaneously complete NYS requirements for high school and earn DCC (Gov 121) credit. The prerequisite for this class is the successful completion of the compass test used by Dutchess Community college to determine student placement.

The purpose of this course is for students to go beyond a study of the formal components of our political system in order to analyze political behavior, processes, and policy-making. Connections to relevant current policies, local, state and federal, will require familiarity with current events. In addition, the importance of civic participation will be addressed. Students who successfully complete the course will earn three college credits from Dutchess Community College with no additional cost. They may, however, be required to purchase a textbook or other materials for the course.

## 2330 RIGHTS AND RESPONSIBILITIES OF GOOD CITIZENS

(1/2 Unit - 1 Semester)

(Factor 8)

Selection of students eligible for this course will be made by the Social Studies Department and will generally include students who have experienced or are experiencing difficulty in meeting the Regents requirement in Global History or U. S. History and Government.

Rights and Responsibilities provides students with a basic understanding of their role in a democratic society as well as a better grasp of the fundamental institutions of government at the local, state, and national levels. Students will be encouraged to participate in a variety of in school and community projects and programs to supplement the course's curriculum.

## AP GOVERNMENT

A final average of 90 in United States History and Government Regents or a final average of 80 in AP United States History and Government is required to take these courses.

AP Government is two distinct, semester-long courses: United States Government and Comparative Government. Each course has a separate AP exam offered in May and provides the opportunity to earn college credit. Students can meet their government requirement by taking one of the courses, but are not limited to taking only one or the other.

Because of the ambitious nature of these courses, extensive readings and research are required. Students should be prepared to allocate a significant amount of time to these courses.

## 2370 AP UNITED STATES GOVERNMENT

(1/2 Unit - 1 Semester)

(Factor 10)

The course focuses on the Constitution, political beliefs, political parties, interest groups, institutions of government, public policy, and civil rights. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. **The AP exam is required.**

## 2380 AP COMPARATIVE GOVERNMENT

(1/2 Unit - 1 Semester)

(Factor 10)

The course focuses on Comparative Government and examines in detail the governments of the United Kingdom, China, Russia, Nigeria, Iran and Mexico. The course is devoted to research and presentations by the students on topics of interest in both American and comparative government. Students interested in careers in political science, government, law, or international relations may find the course of special interest. **The AP exam is required.**

## REMEDICATION COURSES

### Social Studies Labs

(No Credit - Half or Full Year)

#### 2000 GLOBAL 1 LAB

offered on alternate days 1<sup>st</sup> semester

#### 2010 GLOBAL 1 LAB

offered on alternate days 2<sup>nd</sup> semester

Global History 1 Lab is for 9<sup>th</sup> grade students who have been identified with weaknesses as a result of their performance on the 8<sup>th</sup> grade Social Studies final assessment or upon the recommendation of a student's Global History 1 teacher. The class provides skill development and remediation. With regular attendance and a strong work ethic, it is expected that the lab will enable students to experience success and help them attain a passing grade in Global History 1.

#### 2020 GLOBAL 2 LAB

offered on alternate days 1<sup>st</sup> semester

#### 2030 GLOBAL 2 LAB

offered on alternate days 2<sup>nd</sup> semester

Global History 2 Lab is for Global History 2 students who have been identified with weaknesses as a result of their performance in Global History 1 or have been recommended by their Global History 2 teacher. The class provides skill development and remediation. With regular attendance and a strong work ethic, it is expected that the lab will enable students to experience success and help them attain a passing grade in Global History 2.

#### 2170 US HISTORY LAB

offered on alternate days 1<sup>st</sup> semester

#### 2180 US HISTORY LAB

offered on alternate days 2<sup>nd</sup> semester

United States History Lab is for United States History students who have been identified with weaknesses as a result of their performance in Global History 2 or have been recommended by their United States History teacher. The class provides skill development and remediation. With regular attendance and a strong work ethic, it is expected that the lab will enable students to experience success and help them attain a passing grade in United States History.

ACADEMIC INTERVENTION (No Credit – One Quarter)

2190 GLOBAL AIS

2200 U. S. HISTORY AIS

This program is offered to students who have passed the Global History 2/United States History course but have failed to pass the Regents exam required at the end of each class. This class is offered every day for 10 weeks prior to the January and June Regents exams. It provides direct assistance to students needing to retake and pass the Regents.

**ELECTIVE COURSES**

The following electives may be taken by **Seniors and Juniors** only. Juniors must also be enrolled in United States History and Government or have already received credit for the same or a similar course. Juniors must demonstrate ability to successfully complete an elective while enrolled in the mandated U. S. History and Government.

The following elective courses may be taken on a pass/fail basis: Developmental Psychology, Psychology of the Individual, Criminal Law, Constitutional & Civil Law, The Civil War, The 20th Century in Film and Music, America at War in the 20th Century, The Sixties, Multi-Cultural Studies, Hudson River Heritage, An American Perspective On Women, and AP World (for juniors & seniors)

2420 AP WORLD HISTORY

(1 Unit - Full Year)

(Factor 10)

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to 1000 C.E. Periods of history, explicitly discussed, form the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. **The AP examination is required.**

## PSYCHOLOGY

These courses will introduce the student to the field of psychology, and either class will provide a foundation for further study in the field. Those students with a strong interest in psychology will benefit from taking both. Developmental Psychology is not a prerequisite for Psychology of the Individual.

### 2400 DEVELOPMENTAL PSYCHOLOGY (1/2 Unit - Fall Semester) (Factor 8)

Some topics to be covered will include: careers in psychology; research methods and ethics; life-span development theories; death and dying; sleep and consciousness; learning; memory; language acquisition; intelligence.

### 2410 PSYCHOLOGY OF THE INDIVIDUAL (1/2 Unit - Spring Semester) (Factor 8)

Some of the topics to be covered will include: motivation; emotions such as loving and liking; personality theory; stress and adjustment; abnormal behavior; therapy.

## LAW

### 2430 CRIMINAL LAW (1/2 Unit - 1 Semester) (Factor 8)

This course is designed to give students information on the criminal justice system in New York State. The first part of the course will examine the major components of the system: hierarchy of the courts, role of lawyers, and the function of a jury. Students will gain information on the N. Y. penal code, and the steps in the criminal justice process from arrest to trial. Finally, the course will have students participate in a mock trial. Throughout the course, students will have to become involved actively, since the course work will stress analysis and applications of law. Guest speakers will be used to enrich the curriculum and introduce students to careers related to the law.

### 2440 CONSTITUTIONAL AND CIVIL LAW (1/2 Unit – 1 Semester) (Factor 8)

This course will examine Supreme Court decisions interpreting parts of the constitution, such as the 1<sup>st</sup> amendment, that safeguard some of our most fundamental rights as citizens. Students will analyze precedents and apply them to real life situations. They will also do research and write briefs on constitutional cases to be presented before a student supreme court, which will vote on the outcome. The course will also focus on tort law and policy, to explore our society's growing interest in such matters as personal injuries and product defects. In addition, students will learn trial techniques to be applied in the performance of a mock trial. Guest speakers will be used to enrich the curriculum and introduce students to careers related to the law.

## HISTORY

### 2600 THE CIVIL WAR

(1/2 Unit - 1 Semester)

(Factor 8)

The course will explore the causes of the conflict, the major battles of the war, as well as its aftermath. It will take an interdisciplinary approach. Topics will include geography, literature, and music of the time. Recent media contributions to Civil War history such as films and novels will be emphasized. In addition to the textbook, primary source materials such as letters and diaries of Civil War soldiers will be used. Research into the war will also be explored through various web sites.

### 2610 THE 20<sup>TH</sup> CENTURY IN FILM AND MUSIC

(1/2 Unit - 1 Semester)

(Factor 8)

This course will examine the major directors, composers, actors, and recording artists who contributed to 20<sup>th</sup> century American popular culture. From the early days of silent film stars such as Charlie Chaplin and Mary Pickford, through the Golden Age of Hollywood, to the more recent Indie movement, students will trace the development of filmmaking. Students will also listen to the music of the Jazz Age, the big band sounds of Duke Ellington and Benny Goodman, the blues of Robert Johnson, as well as the early rock of Buddy Holly and Elvis Presley. We will study the British Invasion, surfer and psychedelic sound, and the evolution of jam bands. We will see how race, gender, and cultural sensibilities have changed over the course of the 20<sup>th</sup> century. Through these cinematic and musical experiences students will learn to listen and see contemporary popular culture more critically.

### 2620 AMERICA AT WAR IN THE 20<sup>TH</sup> CENTURY

(1/2 Unit - 1 Semester)

(Factor 8)

This course will include an overall view of United States involvement in wars during the 20th century from the First World War through recent global conflicts. The focus topics of the course include the significant battles of each war, the strategies behind them and the effect of technological developments available, expansion of governmental powers, the role of major American military leaders, home-front support, and the depiction of war in popular culture.

### 2650 THE SIXTIES: A DECADE OF TUMULT, TURMOIL, CHANGE & CRISIS IN AMERICA

(1/2 Unit – 1 Semester)

(Factor 8)

This course will consist of documentary and contemporary films, text and discussion, which will engage students and expand their knowledge on this extraordinary time in American History. Topics such as Vietnam both home and abroad, Civil Rights, the Counterculture, and LBJ's Great Society will be discussed. Other aspects of the sixties – feminism, environmental issues, art, music and fashion will be explored. The presidencies of JFK, LBJ and Nixon will be studied in depth.

2770 MULTI CULTURAL STUDIES

(1/2 Unit – 1 Semester)

(Factor 8)

The purpose of the course will be to broaden the world views of students by introducing cultures and ways of living in today's world that are substantially different from their own in the United States. In doing so, Multi Cultural Studies seeks to prepare students to live and work in a world in which interconnections of all kinds are increasing between distant countries, including in trade, politics, cultural life, and such critical issues as global peace and security, environmental protection, and living standards. The course will strive to make students more informed and responsible as citizens of the world.

2780 HUDSON RIVER HERITAGE

(1/2 Unit – 1 Semester)

(Factor 8)

A study of the history and cultures of the Hudson River Valley from pre-Columbian times to the present day. An emphasis will be placed on the history of Dutchess County and its towns and villages. The course will include field trips to local historic sites and an examination of Hudson River literature, art, films, and music. Guest speakers will also address various areas of interest. Students will be able to create learning opportunities with students in the district's elementary and middle schools.

2790 AN AMERICAN PERSPECTIVE ON WOMEN (1/2 Unit – 1 Semester) (Factor 8)

“Don't forget the Ladies” said Abigail Adams. This half year course will focus on achievements women have made throughout our nation's history and the various issues they have championed and challenged to help make the world a better place. The class will study the differences that exist among generations, influential events of the past, international influences, and modern day issues. The class will also focus on specific individuals who have created various types of changes for society and the future. The class will be student-centered and project-based. Anticipate much discussion.

Prerequisites:       None

Recommendations:   Good academic standing, and successful completion of Global Studies.

This is a college-level introduction to Art History. The course is a chronological survey of architecture, painting, sculpture, and photography of the western tradition and selected works from a variety of cultures beyond European conventions.

Students will analyze artworks from daily slide presentations in class. Students will improve their visual skills and their ability to write succinctly through regular practice on tests and through one substantial research project. While students learn to analyze individual artworks, they also arrive at meaningful conclusions on larger themes and cultural developments through time.

Students are encouraged to take the class as a junior while many students enjoy the class during their senior year.

**The AP Exam, in mid-May, is required.**

## MATHEMATICS

A solid background in high school mathematics is becoming increasingly important for both college and career readiness. Over the past decade, graduation standards for mathematics have increased to reflect this importance. The New York State Board of Regents requires all students to pass the Integrated Algebra Regents and earn 3 math credits for graduation. The Math Department has designed various courses and course sequences to help students of all abilities reach these goals. While the mathematical concepts and curriculum are the same in several courses, the pace of each course varies.

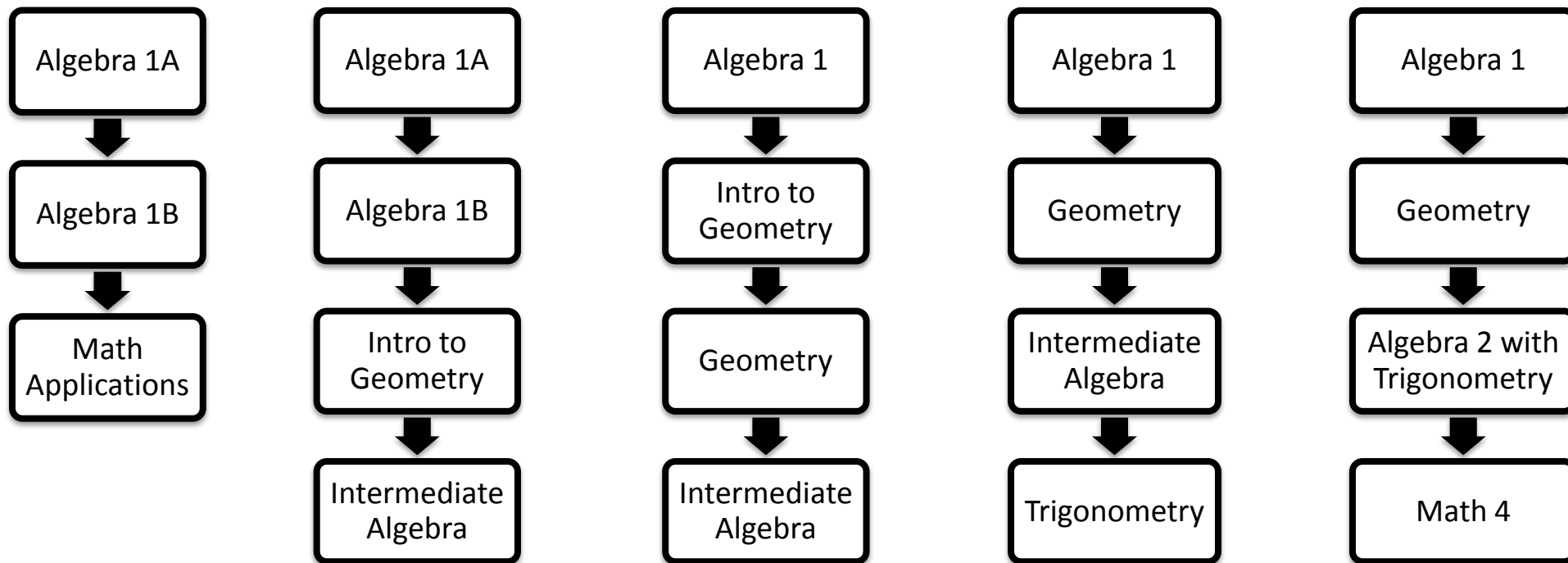
A Math Learning Center (MLC) has been created as a support service to all students studying math. The Center is open and staffed with a math teacher all 8 periods of the day.

The Honors level courses are recommended for those students who need to be challenged beyond the Regents level. The Honors math program at Arlington is an accelerated and enriched Regents curriculum with high expectations and a rigorous workload that moves at an increased pace. Students require above average math skills, a willingness to pursue knowledge for the sake of knowledge, a good work ethic and time to devote to additional studies required for factor 9 and 10 courses. It should be noted that maintaining high grades in this program becomes increasingly more difficult each year as a result of the more challenging and demanding workload. The honors program culminates with Advanced Placement courses in Calculus, Statistics and Computer Science. **Students wishing to move into an honors level class from a Regents level class will be required to make up any deficiencies in his/her knowledge base. As well, students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

In the math department, any math elective **NOT** to be used as a prerequisite for another math course in high school may be taken on a **pass/fail** basis.

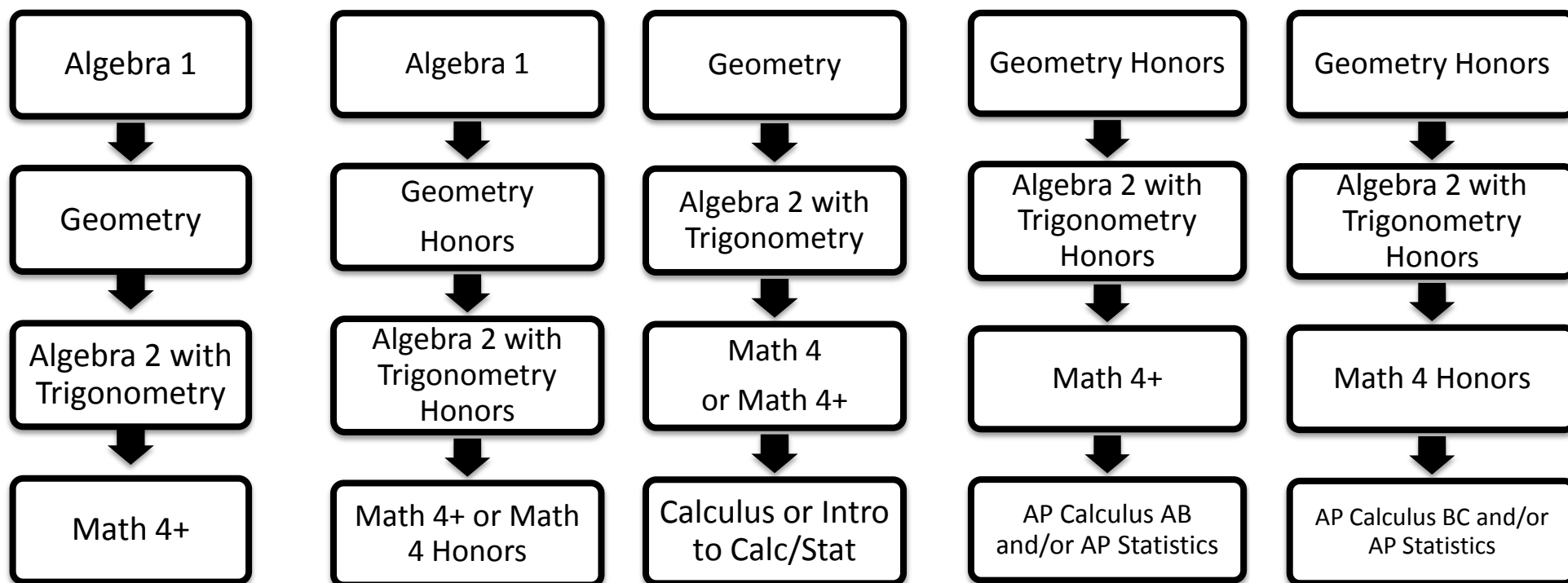
## SUGGESTED MATH COURSE PATHWAYS

Every student must pass the Integrated Algebra Regents examination and each must also pass three years of high school math. After considering these requirements, each student should pick a course sequence that fits their ability level, motivation level, and future career or college plans. Each of the following sequences satisfies the graduation requirements and are examples of different pathways to college or career readiness.



## HONORS PATHWAYS

Honors and Advanced Placement Mathematics at Arlington is an especially good choice for students who have an elevated interest and ability level in math and/or who are planning on attending a competitive four-year college. The timing of when a student chooses to enter or exit the honors path is a function of many variables, including their complete class load as well as the rigors of the particular math course. **Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**



### 3050 REMEDIAL INTEGRATED ALGEBRA (NO credit)

Successful completion of the state Regents Exam in Integrated Algebra is a graduation requirement for all students. This non-credit bearing course is required for any student who fails the Integrated Algebra Regents exam and is not currently enrolled in a math class preparing for this exam. The course is designed specifically to help students prepare to retake this exam. The student is permitted to drop this course upon successful completion of the exam. The Integrated Algebra Regents Exam will be given in January, June, and August of each year.

### 3110 ALGEBRA 1A

(1 Unit – Full Year)

(Factor 7)

This course covers the first half of the New York State Integrated Algebra curriculum. With successful completion of this course, the following year students will take Algebra 1B and take the Integrated Algebra Regents exam in June. Passing this exam is a graduation requirement. Success in this course requires that a student does homework regularly. There will be a school final exam during exam week in June.

### 3150 ALGEBRA 1

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Passing average in Math 8

This course is the first course of the NYS math curriculum. It will cover traditional topics in elementary algebra such as linear, quadratic and rational functions, solving equations and inequalities while touching on topics in probability and statistics and geometry. Success in this course requires that a student do homework regularly. The final exam is the NYS Integrated Algebra Regents given in June.

### 3115 ALGEBRA 1B

(1 Unit – Full Year)

(Factor 7)

This successive course to Algebra 1A finishes the remaining topics from the NYS Integrated Algebra curriculum. The final exam is the Integrated Algebra Regents exam given in June. The Integrated Algebra Regents exam is a state graduation requirement. The use of a graphing calculator is required in this course and on the Regents exam. Success in this course requires that a student do homework regularly.

3160 INTERMEDIATE ALGEBRA

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Intro to Geometry or Geometry  
and a passing grade on the Integrated Algebra Regents

This course will strengthen and expand students' algebra skills while discussing polynomials, rational expressions, first and second degree equations and inequalities, exponents, roots and radicals, systems of equations and inequalities, relations and functions, exponential and logarithmic functions. The final exam in this course will be a three hour department exam given during exam week in June.

3240 INTRODUCTION TO GEOMETRY (1 Unit – Full Year)

(Factor 7)

Prerequisite: Algebra 1 or Algebra 1B

This course is for students who wish to be exposed to the major concepts of geometry, without the rigor of proof. The course will reinforce algebra skills through geometric applications, and more emphasis will be on hands on learning. A foundation in most major topics of Regents Geometry will be laid applying concepts to solving numeric problems rather than studying geometric proofs. This course will **not** prepare the students for the Integrated Geometry Regents exam. There will be a departmental final exam given during Regents week.

◆ This course does not meet NCAA eligibility standards.

3250 GEOMETRY

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Algebra 1, including a passing grade on the Integrated  
Algebra Regents

Recommendation: 75 on the NYS Algebra Regents

This is the successive course to Algebra 1 in the NYS math sequence. Students will study geometric relationships formally and informally. Students will be required to demonstrate mathematical reasoning through formal proofs and problem solving. The final exam in this course is the NYS Regents in Geometry.

3270 GEOMETRY H

(1 Unit – Full Year)

(Factor 9)

Prerequisite: A final course grade of at least 90 in Algebra 1  
AND 85 or better on the NYS Algebra 1 Regents

This course enriches Geometry with much more emphasis placed on Euclidean proofs and begins to increase demands in student performance necessary for success in future honors level math courses. The final exam in this course is the NYS Regents in Integrated Geometry. **Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3300 MATHEMATICAL APPLICATIONS (1 Unit - Full Year)

(Factor 7)

Prerequisite: Algebra 1B, Geometry, Intermediate Algebra, or Introduction to Geometry

Corequisite: Seniors Only: Algebra 1B

This course can only be used as a possible 3<sup>rd</sup> credit in math. This course is designed to apply previously learned and new math concepts in many areas of life, such as probability and statistics, technical areas, finance, etc. There will be a school final or final project in June.

◆ This course does not meet NCAA eligibility standards.

3350 ALGEBRA 2 & TRIGONOMETRY (1 Unit – Full Year)

(Factor 8)

Prerequisite: Geometry

Recommendation: At least an 80 on the Geometry Regents exam.

This course is the third and final year of the NYS mathematics curriculum. The course will cover the traditional second year of algebra and a traditional trigonometry course. A New York State requirement for this course is the use of a graphing calculator. Completion of daily homework assignments is essential. The final exam for this course is the three hour New York State Regents exam in Integrated Algebra 2 and Trigonometry. Students wishing to graduate with the Advanced Regents diploma must pass this Regents exam as well as both previous Regents exams in Integrated Algebra 1 and Integrated Geometry.

3370 ALGEBRA 2 & TRIGONOMETRY H (1 Unit – Full Year)

(Factor 9)

Prerequisite: An 80 final average in Geometry H with a Regents exam grade of at least 85 on the Geometry Regents exam.

Or

A 90 final average in Geometry with an exam grade of at least 85 of the Geometry Regents exam.

This course enriches the Regents Algebra 2 & Trig curriculum and incorporates topics from advanced algebra and advanced coordinate geometry. Students will take a school final exam in the advanced algebra topics, which will serve as approximately 20% of the 4<sup>th</sup> quarter grade. The final exam for this course is the three hour New York State Regents examination in Integrated Algebra 2 & Trigonometry. Students wishing to graduate with the Advanced Regents diploma must pass this Regents exam as well as both previous Regents exams in Integrated Algebra 1 and Integrated Geometry.

**Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3410 TRIGONOMETRY

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Intermediate Algebra

This course will cover the trigonometry topics from the NYS Regents in Algebra 2 and Trigonometry. Some topics covered: solving trig equations, sketching trig curves, Law of Sines and Law of Cosines, Trigonometric Identities. Students will take the NYS Regents in Algebra 2 and Trigonometry as their final exam in June.

3440 MATH 4

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Trigonometry (passed Algebra 2 & Trig Regents Exam), or Algebra 2 and Trigonometry, or Algebra 2 and Trigonometry H

The Math 4 program is a college level pre-calculus course, providing the foundation necessary for the study of college calculus. The principle theme of the course is functions as models of change, and this theme is reinforced through the study of the following functions: quadratic, exponential, logarithmic, trigonometric, polynomial and rational. In addition, the course includes an introduction to vectors and to inferential statistics. Homework is required and a three hour school exam is given in June. The use of a graphing calculator is required in this course.

3450 MATH 4+

(1 Unit - Full Year)

(Factor 9)

Prerequisite: A final course grade of 85 or better in Algebra 2 with an exam grade of 80 or better on the Algebra 2 with Trigonometry Regents exam.

OR

Algebra 2 and Trigonometry H with an exam grade of 80 or better on the Algebra 2 with Trigonometry Regents exam.

This course contains all of the topics in Math 4 and explores them to a greater depth. Since this is an honors level course the pace is faster than that of Math 4 and additional topics are covered: Sequences and Series, Parametric Equations and Conic Sections. The use of a graphing calculator is required in this course. A three hour school exam is given in June. **Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3460 MATH 4 H

(1 Unit - Full Year)

(Factor 9)

Prerequisite: A final course grade of 80 or better in Algebra 2 and Trigonometry H; with a minimum grade of 85 on the Algebra 2 and Trigonometry Regents exam

OR

A final course grade of 90 or better in Algebra 2 and Trigonometry; with a minimum grade of 85 on the Algebra 2 and Trigonometry Regents exam.

This course is a combination of the pre-calculus from Math 4+ and a semester of differential calculus. The graphing calculator is fully integrated into the course. A three hour school exam is given in June. **Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3501 INTRODUCTION TO CALCULUS

(1/2 Unit – 1 Semester)

(Factor 9)

Prerequisite: Math 4 or Math 4+ or Math 4 H

Corequisite for Seniors only: Math 4 or Math 4+ or Math 4 H

This will introduce college bound students to the main topics of the first semester of college calculus at most colleges and universities. The following topics will be introduced: limits, continuity, differentiation and integration. The topics will not be investigated to the same depth as the full year calculus courses taught in the department.

3540 CALCULUS

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Math 4, Math 4+ or Math 4 H

Corequisite for Seniors only: Math 4+ or Math 4

This is a first year college level course in calculus (equivalent to Calculus I and part of Calculus II in many colleges and universities). It stresses the basics of calculus such as limits, continuity, differentiation, and integration of algebraic and transcendental functions, along with basic applications of each. Graphing calculators will be used throughout the course. The purpose of this course is to give the college bound student a good, solid foundation in calculus enabling further study in college easier. Since no AP exam will be taken in this course in the spring, the pace is less rigorous than in AP Calculus AB. A three hour school final exam will be given in June.

3550 AP CALCULUS AB

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Final grade of 90 or better in Math 4  
OR  
Final grade of 80 or better in Math 4+  
OR  
A passing grade in Math 4 H

This course may NOT be taken concurrently with Math 4+ or Math 4.

This course has the same course description as Calculus (Course #3540); however, the purpose of this course is to prepare students to take the Advanced Placement Examination (level AB) in May with the intention of the student securing advanced standing at the college or university of the student's choice. The pace of this course is quicker than Calculus (Course #3540) since the AP exam is given in May. Graphing calculators will be used throughout the course as well as on the AP exam. In addition, there is a school final in June. **The AP exam is required. Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3560 AP CALCULUS BC

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Final grade of 80 or better in Math 4 H

This course is a continuation of Math 4 H. It includes all topics in our AP Calculus AB course along with additional topics in series, sequences, differential equations, and calculus of vector functions. Graphing calculators will be used throughout the course as well as on the AP exam. Upon successful completion of the AP Exam, a student could receive college credit for two full semesters of calculus (Calculus I and II). A three hour school final exam will be given in June. **The AP exam is required. Students who do not meet the prerequisites for an honors or AP math course must apply for a prerequisite waiver through their guidance counselor. After reviewing the waiver, the department coordinator will either grant or deny it.**

3601 INTRODUCTION TO STATISTICS (1/2 Unit – 1 Semester) (Factor 9)

Prerequisite: Math 4 or Math 4+ or Math 4 H  
Corequisite for Seniors Only: Math 4+ or Math 4 or Math 4 H

This course will serve as an introductory statistics course designed to introduce students to some of the topics that would be studied in a college level introductory statistics course. The first of the two marking periods will focus on gathering and organizing data, examining distributions through graphs and numbers, normal distributions, and modeling linear and non-linear data. The second marking period will focus on statistical inference. This will include construction/interpreting confidence intervals and significance tests for means or proportions. If time permits, Chi-square will be introduced. There will be an in-class final exam over 2 days covering all topics of the course.

3650 AP STATISTICS (1 Unit - Full Year) (Factor 10)

Prerequisite: Math 4 H or Math 4+  
OR  
Seniors Only: A final course grade of 85 or better in Algebra 2 and Trigonometry **and** must be concurrently enrolled in Math 4+ or Math 4 H

This course offers students an opportunity to complete studies in secondary school equivalent to a one-semester, introductory, non-calculus based, college course in statistics. In college, at least one statistics course is typically required for majors such as economics, engineering, psychology, sociology, health science, and business. The purpose of the course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. Students who successfully complete the course and the AP examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. There will be a final exam and/or final project in June. **The AP exam is required.**

3760 COMPUTER PROGRAMMING WITH JAVA (1/2 Unit - 1 Semester)(Factor 8)

Prerequisite: Intermediate Algebra or Geometry

This is an introductory programming course for anyone considering learning how to program using a high level powerful language. No previous programming experience is necessary, but computer literacy working with files in the Windows environment is expected. Topics covered include designing algorithms and writing programs to solve problems, variables and constants, conditional control statements, loops, strings, methods, arrays, classes and applets for simple gaming. This course cannot be used to satisfy a math or science requirement. There will be a final examination or project.

◆ This course does not meet NCAA eligibility standards.

3770 INTERMEDIATE COMPUTER PROGRAMMING WITH JAVA

(1/2 Unit - 1 Semester) (Factor 9)

Prerequisite: Introductory Computer Programming with JAVA  
OR

Space permitting, proficiency in JAVA (covered in textbook A Guide to Programming in JAVA 2<sup>nd</sup> edition, chapters 3-10)

This is an intermediate level programming course for anyone wishing to continue with programming at a higher level. This course is a **MUST** for anyone considering computer science as a career choice. Due to the nature of the course, it is imperative that the student have prior programming experience. The focus of the course will be Object-Oriented Programming. This course cannot be used to satisfy a math or science requirement. There will be a final examination or project.

◆ This course does not meet NCAA eligibility standards.

3780 AP COMPUTER SCIENCE A (1 Unit - Full Year) (Factor 10)

Prerequisite: Intermediate Computer Programming with JAVA  
OR

Space permitting, proficiency in JAVA (covered in textbook: JAVA Methods A & AB, Litvin, Skylight Publishing, Chapters 5-12)

In addition to the material covered in Intermediate Computer Programming with JAVA, files and streams, loops, data structures, sorting and searching algorithms, and linked lists will be covered. The course will be taught in Object-Oriented JAVA. A major case study involving a team oriented approach will be studied. Students will be prepared for the Advanced Placement Computer Science A examination in May. There will be a final examination or project. **The AP exam is required.**

◆ This course does not meet NCAA eligibility standards.

### 3810 ADVANCED MATHEMATICS SEMINAR 1

(1/2 Unit – Fall Semester **Only**) (Factor 10)

Note: Independent Study  
Pass/Fail Only

Prerequisite: AP Calculus BC

This course is designed for students who have completed AP Calculus BC and wish to experience rich mathematical explorations into upper level college mathematics. Topics in multivariable calculus will be explored, including partial derivatives, gradient vectors and directional derivatives, tangent planes and normal lines, multiple integrals, and applications.

This course is offered on an independent study basis only, under the guidance of math faculty advisors. Students will be expected to meet as a group with the faculty advisors after school twice a month, while completing assignments in between meetings. Web-based work, graphing calculators, and mathematics software may be used to complement text study. Students and math faculty advisors will work together as a team in dialogue, explorations, and presentations.

### 3820 ADVANCED MATHEMATICS SEMINAR 2

(1/2 Unit–Spring Semester **Only**) (Factor 10)

Note: Independent Study  
Pass/Fail Only

Prerequisite: Advanced Mathematics Seminar 1

This course is designed as a follow up to multivariable calculus. Vector analysis, including line integrals and surface integrals, topics in linear algebra, and topics in differential equations will be explored. In addition, emphasis will be placed upon mathematical proof in a variety of contexts.

This course is offered on an independent study basis only, under the guidance of math faculty advisors. Students will be expected to meet as a group with the faculty advisors after school twice a month, while completing assignments in between meetings. Web-based work, graphing calculators, and mathematics software may be used to complement text study. Students and math faculty advisors will work together as a team in dialogue, explorations, and presentations.

## SCIENCE

All students are required to earn three credits in science and to pass one Regents science examination to graduate. Additionally, the three science credits must include at least one course in the Living Environment and one in the Physical Setting.

All Regents science examinations keyed to the MST Standards will test students' scientific literacy. Students, **writing in their own words**, will be expected to demonstrate their understanding of important relationships, processes, mechanisms, and applications of concepts in science. They will be expected to explain, analyze and interpret scientific processes and phenomena.

The Science Department has designed various courses to help students of all abilities to fulfill the graduation requirements. Each core curriculum course covers the same core concepts, but at different paces.

Entering freshmen are encouraged to choose their first high school science course based upon their individual strengths, interests, and goals. It is recommended that students consult with their parents, eighth grade science teacher, and guidance counselor as they make this choice.

Students planning to take Regents Chemistry or Physics are strongly urged to arrange their schedules so that they complete 2 Regents Math courses before enrolling in either course. Both the experiences in problem solving and the analytical thinking developed in Algebra are of considerable benefit in Physics or Chemistry. (See Recommendations for Regents Physics and for Regents Chemistry.)

IN ORDER TO BE ELIGIBLE TO TAKE THE REGENTS EXAMINATION IN A SCIENCE, A STUDENT MUST SUBMIT SATISFACTORY REPORTS REPRESENTING A MINIMUM OF 1200 MINUTES OF LABORATORY WORK. PAST DUE REPORTS MUST BE SUBMITTED NOT LATER THAN TWO WEEKS BEFORE THE REGENTS EXAMINATION. A STUDENT WHO FAILS TO COMPLETE THE LABORATORY REQUIREMENT CAN NOT BE ADMITTED TO THE COURSE IN SUMMER SCHOOL.

The New York State Education Department states, “The State Education Department highly recommends that if a student fails a Regents science course the laboratory requirement must be completed again when the course is retaken.” In courses that address the entire Core to be tested in a single year, all of the lab minutes used to qualify for the Regents exam must be met each year. Lab time cannot be carried over from previous years. This means that:

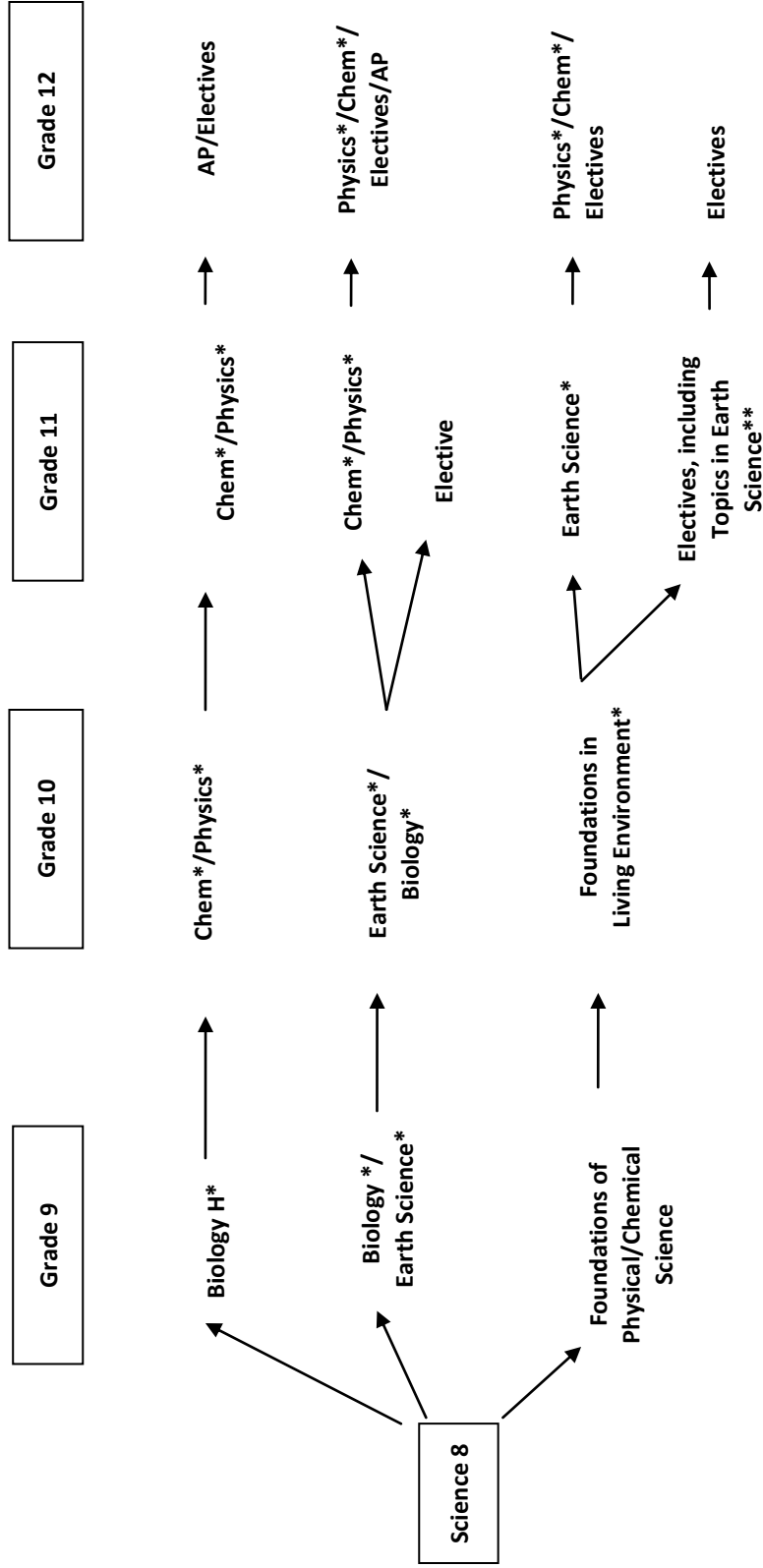
If a student fails the course, but passes the Regents exam, the student must re-qualify to take the Regents exam the next time the course is taken per the recommendation stated above. This does not apply to students taking the course in summer school.

If a student passes the course, but fails the Regents exam, the lab requirement does not have to be met again the next time the student takes the Regents exam. Likewise if a student opts to retake the Regents exam for the purpose of raising their score, the student need not re-qualify.

No science course may be taken on an independent study or audit basis.

No science course may be taken on a pass/fail basis unless specifically permitted in the description of a particular course.

# Science Pathways



\* Course ends in a Regents Exam

\*\* Students who choose the path: Foundations (Phys/Chem) > Foundations(LE) > Topics in Earth Science cannot earn an Advanced Regents Diploma. They will be eligible for only one Science Regents exam (LE/Biology) which they must pass to earn a Regents Diploma.

#### 4011 ACADEMIC INTERVENTION SERVICE: BIOLOGY

2-5 periods per week

No Credit

##### Placement Criteria:

- Students who fall below the NYS standard on the Intermediate Examination for science
- Students who fail a Regents examination in science
- Students whose teachers recommend them

In an effort to assist students in passing a New York State Regents Exam in science that is required for graduation from high school, additional instruction is offered in the Science Department Academic Intervention Service. Students receive teacher assistance either one-on-one or in a small group (not to exceed ten students with one teacher).

The emphasis is on skills needed for science as well as on science content. This section is designed for students needing assistance with Biology. Typically students need help with reading, simple math, and with construction and interpretation of graphs.

#### 4012 ACADEMIC INTERVENTION SERVICE: EARTH SCIENCE

2-5 periods per week

No Credit

##### Placement Criteria:

- Students who fall below the NYS standard on the Intermediate Examination for science
- Students who fail a Regents examination in science
- Students whose teachers recommend them

In an effort to assist students in passing a New York State Regents Exam in science that is required for graduation from high school, additional instruction is offered in the Science Department Academic Intervention Service. Students receive teacher assistance either one-on-one or in a small group (not to exceed ten students with one teacher).

The emphasis is on skills needed for science as well as on science content. This section is designed for students needing assistance with Earth Science. Typically students need help with reading, simple math, and with construction and interpretation of graphs.

4100 FOUNDATIONS IN CHEMICAL SCIENCE (1/2 Physical Setting Credit)  
5 periods per week (1/2 Unit – 1 Semester) (Factor 7)

Criteria for Placement: This course is recommended for students who feel that they will benefit from a course that does not involve a high stakes exam prior to taking a course that ends in a Regents Examination.

This course covers some of the material outlined in the New York State Core Curriculum for the Physical Setting/Chemistry. Lab work is an important part of this course and will be scheduled within the confines of meeting five periods each week. Lab work will concentrate on laboratory, inquiry, and study skills that will be necessary for the success in preparing for a Regents Exam. Topics such as pollution, common home chemicals and common garden chemicals will be introduced as a means of exercising those skills mention above.

Final Examination: Written exam.

Textbook: CPO Science – Foundations of Physical Science

4110 FOUNDATIONS IN PHYSICAL SCIENCE (1/2 Physical Setting Credit)  
5 periods per week (1/2 Unit – 1 Semester) (Factor 7)

Criteria for Placement: This course is recommended for students who feel that they will benefit from a course that does not involve a high stakes exam prior to taking a course that ends in a Regents Examination.

This course covers some of the material outlined in the New York State Core Curriculum for the Physical Setting/Physics. Lab work is an important part of this course and will be scheduled within the confines of meeting five periods each week. Lab work will concentrate on laboratory, inquiry, and study skills that will be necessary for the success in preparing for a Regents Exam. Topics such as simple mechanics, magnetism, and electricity will be introduced as a means of exercising those skills mentioned above.

Final Examination: Written exam.

Textbook: CPO Science – Foundations of Physical Science

## 4240 FOUNDATIONS IN THE LIVING ENVIRONMENT

7 ½ periods per week (1 Living Environment Credit)  
(1 Unit – Full Year) (Factor 7)

Recommendation: This course is most appropriate for students who have passed the Foundations in Physical Science and Foundations in Chemical Science courses and is designed for sophomores, juniors and seniors.

This course deals with the study of life processes in cells, and multicellular organisms, and with evolution, genetics, and ecology as a means of reinforcing skills in inquiry and scientific thinking. This course covers only those understandings and ideas specified in the Core Curriculum Guide for the Living Environment. It provides a solid foundation for success in the New York State Living Environment Regents Examination. This course does not contain some of the supplementary information nor go into the same depth that Regents Biology does. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the final exam. Regular outside-of-class preparation is essential.

Final Examination: NYS Regents Examination:  
**Living Environment**

Textbook: Schraer and Stoltze, Biology: The Study of Life.

4250 REGENTS BIOLOGY (1 Living Environment Credit)  
7 1/2 periods per week (1 Unit - Full Year) (Factor 8)

Recommendation: Passing average in Science 8

This course deals with the study of life processes in cells, and multicellular organisms and with evolution, genetics, and ecology. It provides a solid framework for college level biology courses. Great emphasis is placed on language usage, reading comprehension, and writing. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the final exam. Regular outside-of-class preparation is essential.

Final examination: NYS Regents Examination:  
**Living Environment**

Textbook: Schraer and Stoltze, Biology: The Study of Life.

4260 BIOLOGY HONORS (1 Living Environment Credit)  
7 1/2 periods per week (1 Unit - Full Year) (Factor 9)

Recommendation: Regents Earth Science with a class average of 85 or a grade of 85 on the Regents Examination in Earth Science

The course is similar to Regents Biology but with heavier emphasis on the experimental basis of biology and more extensive treatment of some topics. Emphasis will be placed on understanding and application of major principles of biology; understanding and application of simple algebraic concepts to solving word problems; and organizing, interpreting, and drawing conclusions from lab data. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the NYS Regents portion of the final examination. Extensive outside-of-class preparation is required.

Final examination: NYS Regents Examination:  
**Living Environment** plus a local exam

Textbook: Schraer and Stoltze, Biology: The Study of Life

4350 REGENTS EARTH SCIENCE (1 Physical Setting Credit)  
7 1/2 periods per week (1 Unit - Full Year) (Factor 8)

Recommendation: Passing average in Science 8

This course includes the following topics: Measurement & Density, Mapping, Astronomy, Weather, Rocks & Minerals, Weathering & Erosion, Plate Tectonics, and Geological History. Graphing and mathematical skills are needed for success in Earth Science. Success in this subject requires that a student write extensively and do homework regularly. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the final exam.

Final examination: NYS Regents Examination:  
**Physical Setting/Earth Science**

Textbook: Namowitz & Spaulding: Earth Science  
Glencoe NY Earth Science

4450 REGENTS CHEMISTRY (1 Physical Setting Credit)  
7 1/2 periods per week (1 Unit - Full Year) (Factor 8)

Recommendation:

- Successful completion of two Regents math courses including a passing grade on the Algebra Regents exam and an average of 70 or better in a Regents science course OR
- Students wishing to take chemistry concurrently with their second Regents math course should have achieved a final average of 85 or better in a Regents science course.
- A student who has achieved less than 85 in Algebra may expect to have considerable difficulty.

This is a comprehensive chemistry course dealing with the substances of the physical world and their interactions at the particle level. Topics include: atomic structure, bonding, the periodic table, stoichiometry, kinetics and equilibrium, acid-base theories, and organic chemistry. Students should be proficient in the following mathematical skills: rearranging algebraic equations; using scientific notation; and converting fraction, decimal, and percent equivalents. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the final exam. Considerable outside-of-class preparation is required.

Final examination: NYS Regents Examination:  
**Physical Setting/Chemistry**

Textbook: Wilbraham, Staley, Matta, Waterman  
Chemistry New York State Edition 2005

4460 CHEMISTRY HONORS (1 Physical Setting Credit)  
7 1/2 periods per week (1 Unit - Full Year) (Factor 9)

Recommendation:

- Regents physics exam score of 75 or higher
- Students should have passed Algebra 2 Trigonometry OR be concurrently enrolled. Students with an Algebra 2 Trigonometry exam score less than 75 should expect to find honors chemistry difficult.

The course is similar to Regents Chemistry but with heavier emphasis on the mathematical aspects of chemistry, along with a greater use of problem solving skills and more extensive treatment of some topics. This course will prepare students for the SAT Subject Test in Chemistry. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the New York State Regents portion of the final examination. Extensive outside-of-class preparation is required.

Final examination: NYS Regents Examination:  
**Physical Setting/Chemistry** plus a local exam

Textbook: Wilbraham, Staley, Matta & Waterman, Chemistry

4550 REGENTS PHYSICS

(1 Physical Setting Credit)

7 1/2 periods per week

(1 Unit - Full Year)

(Factor 9)

Recommendation:

- Regents science course with a course average of 70 or better
- Successful completion of two Regents math courses including a passing grade on the Algebra Regents exam
- Students who took Geometry and scored below a 75 on the Geometry Regents exam should expect to have difficulty in physics.

This course considers our ideas about the nature of the physical world. Major topics are mechanics (motion: kinematics and dynamics), energy, wave phenomena, electricity and magnetism, and modern physics. The analysis of problems using the methods of mathematics is emphasized throughout the course. Laboratory work is an integral part of the course. Successful completion and documentation of a minimum of 1200 minutes of laboratory work is required for the final exam. Considerable outside-of-class preparation is required.

The content and methods of this course are indispensable components of all four-year college programs in engineering and the physical sciences and many two-year technical programs. The student for whom this course is especially important is urged to enroll in the course as early as his or her mathematical preparation will permit.

Final examination: NYS Regents Examination:  
Physical Setting/Physics

Textbook: Zitzewitz, Physics-Principles and Problems

4600 TOPICS IN EARTH SCIENCE

(1 Physical Setting Credit)

5 periods per week

(1 Unit – Full Year)

(Factor 7)

Prerequisite: Foundations in the Living Environment

Topics in Earth Science covers most of the material outlined in the New York State Core Curriculum for the Physical Setting/Earth Science. Lab work is an important part of this course and will be scheduled within the confines of meeting five periods each week.

The student will **not** be eligible to take the NYS Regents Examination in the Physical Setting/Earth Science because the class will meet for only five periods per week.

Final examination: Written exam.

Textbook: Namowitz & Spaulding, Earth Science

4605 TEACHING SCIENCE THEORY AND PRACTICE (1 Physical Setting Credit)

5 periods per week

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Successful completion of 3 Regents science classes

This course is designed to help students improve their science knowledge and understanding by learning effective methods of teaching science. Students will be given an introduction to educational theory and practice, as well as methods of teaching science. Students will be actively engaged in designing and creating lessons and activities in different scientific disciplines and then teach these lessons to elementary level students in the Arlington district. Once lessons have been developed, elementary classes will come to the high school several times per week, to go through the lessons and programs that the students in this course have developed.

Final Examination: Portfolio

◆ This course does not meet NCAA eligibility standards.

**The following four courses meet for one semester and are worth one-half unit in science. Successful completion of any two half-unit courses will complete the requirement for the third credit in science.**

4611 MARINE BIOLOGY: FROM TENTACLES TO CLAWS

(1/2 Living Environment Credit)

5 periods per week

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisite: Successful completion of Regents Biology and one Physical Setting credit (including a passing grade on the Regents Living Environment exam) and an interest in marine biology.

In this course students will explore the various Marine environments, including coral reefs, mangroves, the everglades, rocky coasts and the Hudson River. We will travel to the river to experience an estuary up close and to participate in hands-on investigations. Our studies in this course will focus on organisms ranging from microscopic plankton to sponges, corals, sea jellies, marine worms, mollusks, crabs, shrimp, lobster, and sea stars. In addition to studying the marine organisms, we will also discuss marine exploration and the chemical and physical environment that affects the organisms. Throughout the semester students will conduct lab activities, such as squid and lobster dissections at a local restaurant and chemical testing, and if busing is available, we will go to a marine aquarium and go on a marine research vessel.

Final Examination: Will include a project based final examination, involving the creation of an educational lesson plan or conducting an experiment in the marine aquaria.

Textbook: Marine Science, Amsco, 1998

4612 MARINE BIOLOGY: FROM FINS TO FLUKES

(1/2 Living Environment Credit)

5 periods per week

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisite: Successful completion of Regents Biology and one Physical Setting credit (including a passing grade on the Regents Living Environment exam) and an interest in marine biology.

In this course students will explore the many strange and wonderful creatures of the vast ocean that cover our planet. Students will study animals including dolphins, whales, manatees, penguins, fish, sea turtles, sea snakes, and iguanas. We will explore SCUBA diving physiology and the principles of buoyancy in comparison to other marine animals. During the semester we will increase student awareness of the environmental issues, such as global climate change and marine pollution, which impact marine animals. Throughout the semester students will conduct lab activities, such as fish and shark dissections, chemical/physical studies. If busing is available, we will offer trips that may include a whale watch and a trip to TRY SCUBA in a pool.

Final Examination: Will include a project based final examination, involving the creation of an educational lesson plan or conducting an experiment in the marine aquaria.

Textbook: Marine Science, Amsco, 1998

4630 FORENSIC SCIENCE

(1/2 Physical Setting Credit)

5 periods per week

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisite: Two science credits, one must be in Regents Biology/Living Environment and a PASSING GRADE on a NYS Regents science examination.

Forensic Science is the study of physical evidence left at the scene of a crime. Students will be involved in the collection of physical evidence from simulated crime scenes. Students will use standard scientific procedures and current techniques to analyze collected evidence. Local law enforcement experts will be invited to speak to students on various topics. A field trip to an appropriate forensic facility may be scheduled. Students may be invited to participate as expert forensic witness at a mock trial.

Final Examination: Local Exam / Evaluation

Textbook: Forensic Science for High School, Funkhouser-Delisch; Kendall Hunt, 2005  
Casebook of Forensics Detection, Evans, Colin; John Wiley & Sons, Inc. 1996

4640 SRC: NATURAL DISASTERS

5 periods per week

(1/2 Physical Setting Credit)

(1/2 Unit – 1 Semester) (Factor 8)

Prerequisites: Successful completion of Regents Earth Science (including a passing grade on the Regents Earth Science exam) and an interest in natural disasters.

Scientific Research and Communications (SRC): Natural Disasters is a course that explores all types of natural disasters that can occur on Earth. The topics range from short-term catastrophes such as hurricanes and earthquakes to long-term disasters such as global warming and asteroid impacts. The role of human beings and science in studying, predicting, and dealing with these disasters will be a repeated theme throughout the course. Students will be expected to do extensive research projects that involve the investigation of different natural disasters. The class is set in a computer lab and students will create group projects that they will present in class.

Final Examination: Final project presented in class

4650 CHEMISTRY IN THE COMMUNITY (ChemCom®)(1 Physical Setting Credit)

5 periods per week

(1 Unit – Full Year)

(Factor 8)

Prerequisite: Regents Biology and one other Regents science course.  
Pass one NYS Regents science examination.

Chemistry in the Community is a chemistry course that focuses on the impact of chemistry on everyday life. Based on the ChemCom ® curriculum developed by the American Chemical Society, its goals are to enhance scientific literacy and to promote an appreciation for the nature of scientific knowledge. It is based on the belief that, as future community members, workers, and voters, students need a foundation of scientific knowledge in order to meaningfully participate in the discussion of current events such as pollution, global warming, energy sources, and risk assessment. To this end, the course combines a thorough study of chemistry fundamentals with a discussion of the positive - and negative - roles that chemistry and technology play in our world. As part of the course, students complete an independent project exploring the role of chemistry in a topic of their choice. Lab work is an important part of this course and will be scheduled within the confines of meeting five periods per week

Final Examination: Local Exam

Textbook: Chemistry in the Community, W. H. Freeman

4660 SRC: EVOLUTION AND ANIMAL BEHAVIOR(1/2 Living Environment Credit)

5 periods per week

(1/2 Unit – 1 Semester)

(Factor 9)

Prerequisites: Successful completion of Regents Biology (including a passing grade on the Regents Living Environment exam), Regents Earth Science and an interest in evolution.

Recommendation: 85 or better on the Living Environment exam

Scientific Research and Communication (SRC): Evolution and Animal Behavior is a course that looks into the forces of nature that rule over the survival of all species on Planet Earth. The topics range from the studies of Charles Darwin and his theory of evolution to the survival and reproduction of a variety of species alive today (plants, animals and microorganisms). The effects of evolution on human beings (and of human beings on evolution) will be a primary theme of the course. Students will be expected to read, write and discuss early in the semester, after which they will work on research projects that involve a topic of interest in evolution. The class is set in a computer lab and all students will be expected to do presentations in the form of web sites and PowerPoints. Students will also have an opportunity to create and teach lessons related to the theory of evolution to elementary school children. Students will be required to complete some work in the summer preceding the course.

Final Examination: Final project presented in class

4670 CONTEMPORARY ISSUES IN BIOLOGY – Biomedical focus

(1 Living Environment Credit)

5 periods per week

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Regents Biology

Recommendation: This course requires extensive reading and writing. It is strongly recommended that the student meet the following criteria:  
Completion of the following with final averages of 80 or better or its equivalent in Honors Level:

- (1) Any two Regents science courses
- (2) English 10
- (3) Global History 2

Extensive changes are taking place in our society as a result of the use of technology. As changes occur individuals are faced with challenges to their attitudes and values with respect to such issues as stem cell research, assisted reproductive technologies, genetic screening, gene therapy, gene engineering, and ethics of scientific research. These issues, as well as many more, are discussed in this course. The class is set in a computer lab and all students will be expected to do presentations in the form of PowerPoints. Students will be expected to do research using a variety of sources and to actively engage in class discussion. The principle objectives of the course are to develop an understanding of how to approach the study of issues and to expose students to issues that they may face in their lifetimes.

Final Examination: Local examination

4690 ASTRONOMY

(1/2 Physical Setting Credit)

5 periods per week

(1/2 Unit-1 semester)

(Factor 8)

Prerequisite: Successful completion of Regents Earth Science (including a passing grade on the Earth Science exam) and an interest in astronomy.

Astronomy is the study of objects and phenomena that lie beyond the Earth's atmosphere. In this course, students will study the night sky, planets in our solar system, stars, galaxies, and space exploration. The course will focus on understanding what we see in the night sky and the physical characteristics of stars and planets. The class is set in a computer lab and students will have the opportunity to use an interactive astronomy software program.

Final Examination: Local exam and project

Textbook: Discovering the Universe, Kaufmann and Comins.

4700 ARLINGTON GOING GREEN – ENERGY AND OUR ENVIRONMENT

(1 Physical Setting Credit)

5 periods per week

(1 Unit – Full Year)

(Factor 9)

Prerequisite: Completion with final averages of 80 or better (or its equivalent in Honors level) in any 2 Regents science courses.

Arlington Going Green is a multidisciplinary, service-learning course focused on student-initiated projects. The course explores the use of energies (both traditional and alternative) and the creation of waste in our school and community. The environmental and economic impact (both positive and negative) of all energy types will be explored through student-led projects. Over the course of the year, students will design and implement group projects for the benefit of the school or the larger community. The course is science-based with teachers collaborating from other departments. Social studies teachers, as guest speakers, provide historical perspective and a window into the politics of going green. Technology, art, and science teachers provide technical expertise to help the projects move to completion. Students work in teaching teams to develop and deliver lessons to younger students from our elementary and middle schools. Team projects include solar power and wind power lessons, school recycling, organic gardening and composting, campus beautification and the mixing of biodiesel using waste vegetable oil from the school cafeteria.

Final Examination: Final project presented in class

◆ This course does not meet NCAA eligibility standards.

4710 AP BIOLOGY

(1 Living Environment Credit)

7 1/2 periods per week

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Regents Biology and Regents Chemistry with a class average of 85 or better OR Regents Physics and Regents Chemistry with a class average of 85 or better.

This is equivalent to a two-semester college level course in the principles of biology. Evolution is the fundamental theme, and biochemistry, genetics, physiology, ethology, and ecology are treated in depth from the point of view of evolution. There is a significant amount of laboratory work with a heavy emphasis on the analysis and interpretation of data. Extensive outside-of-class preparation including readings and a project or paper on a topic of the student's choice are required. Students will be required to complete some work in the summer preceding the course and should obtain summer work from the AP Biology teacher upon enrolling in this course. **The AP exam is required.**

Final examination: Local exam

Textbook: Biology, 8<sup>th</sup> Edition by Campbell

4730 AP ENVIRONMENTAL SCIENCE

(1 Liv Env or Physical Setting Credit)

7 1/2 periods per week

(1 Unit – Full Year)

(Factor 10)

Prerequisites: Both Regents Biology and Chemistry with a class average of 85 or better.

Recommendation: Regents Earth Science

This is equivalent to a two-semester college level course in environmental science. Unlike most other college introductory-level courses, environmental science is offered from a wide variety of departments, including biology, geology, environmental studies, environmental science, chemistry and geography. This is a rigorous science course that stresses scientific principles and analysis, and that will include a laboratory component. This course will enable students to undertake, as first year college students, a more advanced study of topics in environmental science. In both breadth and level of detail, the content of the course reflects what is found in many introductory college courses in environmental science. Students will be required to complete some work in the summer preceding the course and should get summer work from the AP Environmental teacher upon enrolling in this course. **The AP exam is required.**

Final Examination: Local examination

Textbook: Wright, Nebel Environmental Science 9<sup>th</sup> edition

4750 AP CHEMISTRY

(1 Physical Setting Credit)

7 1/2 periods per week

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Chemistry Regents exam grade of 85 or higher and Physics Regents exam grade of 85 or higher and Math 4 exam grade of 85 or higher

Recommendation: It is strongly recommended that the student be enrolled in (or have completed) Math 4H or higher.

This is equivalent to a two-semester college level course in theoretical chemistry, designed for students who plan to major in science or medicine. Advanced chemical reasoning and extensive mathematical problem solving permeate the entirety of the course. Topics include advanced stoichiometric analysis, atomic and molecular structure, periodic trends, solution chemistry, gaseous chemistry, descriptive chemistry, electrochemistry, nuclear chemistry and organic chemistry. The course heavily emphasizes the topics of equilibrium, kinetics and thermodynamics. Laboratory work is an essential part of this course. Students will be required to write detailed reports on lab work performed in class. Extensive time outside of class is required to develop conceptual understanding and improve problem solving abilities. Students will be required to complete work in the summer preceding the course and should get the summer work form the AP Chemistry teacher upon enrolling in this course. **The AP Exam is required.**

Final examination: School exam

Textbook: Brown, LeMay & Bursten, Chemistry, The Central Science

4760 AP PHYSICS C Mechanics plus Electricity and Magnetism

(1 Physical Setting Credit)

7 1/2 periods per week

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Regents Physics with a class average of 85 or a grade of 85 on the Regents examination.

Corequisite: Any Calculus course

Recommendation: Calculus BC

This is a calculus based course in mechanics and electricity & magnetism equivalent to a two-semester college physics course. Students will be prepared to take the AP examination (level C) in mechanics as well as in electricity and magnetism. The topics of study include kinematics, dynamics, momentum, energy, rotational motion, oscillations, gravitation, electrostatics, electric currents, and electromagnetism. Students should expect to do extensive outside-of-class preparation. **The AP exam is required.**

Final examination: School exam

Textbook: Serway: Physics for Scientists and Engineers

4800 SCIENCE RESEARCH

5 periods per week

(1/2 Physical Setting or Living Environment Credit)

(1/2 Unit – 1 Semester)

(Factor 10)

This course may be taken more than one time.

This course is offered ONLY to Juniors and Seniors and ONLY on a pass/fail basis.

Prerequisites: Passed two Regents Examinations and recommendation of the instructor based on a research proposal.

Students will plan and conduct their own original research project. Students will be introduced to research design and will critically analyze experimental research. Student research projects will be carried out in the school laboratories or in the community. The research may be presented at scientific meeting, written up for possible publication, or entered into various science scholarship competitions. The course is intended for the student who is highly motivated, has an interest in scientific questions and is able to carry out independent research.

◆ This course does not meet NCAA eligibility standards.

## FOREIGN LANGUAGE

The goal of the Foreign Language Department is to expand the limits of the student's world to include an understanding of other cultures and people. To achieve this end, students will develop auditory, speaking, reading, and writing proficiencies in order to actively communicate with other people of other cultures.

The following is an explanation of courses and requirements for success.

There will be **NO Pass/Fail** option or Independent Study for Foreign Language courses.

A student **must pass** the level 3 Regents examination (or equivalent exam) before entering level 4 of that language. If an AP exam is offered in the level 5 language, it is a requirement of the Level 5 course.

No student may earn more than 1 year of Foreign Language credit via "Alternative Credit".

5010 FRENCH 1

(1 Unit - Full Year)

(Factor 8)

This course is an introduction to French as a spoken and written language. The course work includes regular, repetitive practice where students are expected to read, write, and speak about their immediate world which would include their interests, school life, family, friends and self. They will be able to ask and understand basic information to enhance their understanding of the diverse cultures of the French speaking world through authentic French material. Students will take a school final.

5020 FRENCH 2

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of French 1.

A continuation of the development of the four skills introduced during Level 1 at a somewhat faster pace. Success is achieved through student use of the French phrases taught, through active participation in class learning, and also through oral, written and auditory test and project grades. Classes are designed to give students an opportunity to show that they are able to use and understand the language. There is a school final exam at the end of the year.

5030 FRENCH 3 R

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of French 2.

This course will further develop the four skills with special emphasis on oral communication in class. There will be frequent testing of listening, speaking, and reading comprehension skills. More detailed cultural study with its implications as found in the reading assignments. Students will take a comprehensive school examination.

5040 FRENCH 4

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Successful completion French 3 R including the level 3 final examination.

This course is designed to develop student proficiency in French through the integration of the four skills with the emphasis on the ability to express oneself in speaking and writing. The course is conducted entirely in French. Review of grammar, vocabulary, and usage as well as continued studies of culture, art, and literature will be presented through a wide variety of materials including music, films, short stories, newspapers, magazines and texts.

Successful completion of this course requires active daily oral participation, satisfactory completion of all class work, mastery of grammatical themes and a school final examination.

5050 AP FRENCH 5

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Successful completion of French 4.

The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products).

There are six groups of learning objectives at the core of the AP French Language and Culture course that identify what students should know and be able to do across three modes of communication. These objectives outline expectations of student abilities in the following areas:

- Spoken Interpersonal Communication
- Written Interpersonal Communication
- Audio, Visual, and Audiovisual Interpretive Communication
- Written and Print Interpretive Communication
- Spoken Presentational Communication
- Written Presentational Communication

The AP French course is intended for those students who are seriously interested in continuing to develop their language skills and are willing to devote the time necessary to succeed. Successful completion of this course requires active daily oral participation, satisfactory completion of all class work, mastery of grammatical themes and a school final examination based on the Advanced Placement French Language and Culture Exam. **The AP exam is required.**

5130 GERMAN 3 R

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of German 2.

German 3 builds on the skills developed in Level 2. The curriculum for German 3 is focused on providing the students learning opportunities to develop confidence in reading, writing, listening and speaking German. Students will take a school final examination.

5140 GERMAN 4

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Successful completion of German 3 R including the level 3 final examination.

Level 4 German is a transition year. Students develop their reading, writing, speaking and listening in preparation for Advanced Placement German, Level 5. While students in level 3 German are developing their German skills to Checkpoint B Proficiency, that is, the proficiency required to pass the German Regents, level 4 and level 5 students work toward Checkpoint C proficiency, which correlates to the proficiency expected by the Advanced Placement Examination. This examination requires students to be able to speak, read, write, and understand spoken German at an advanced level. In order for students to become adequately fluent, a firm grounding in the grammatical structure of the language as well as its vocabulary is required. Just as in German 2 and 3, grammar is taught in the context of communication, which allows students to understand how grammar impacts meaning.

By the end of the school year, participants will demonstrate their proficiency in the following manner: by presenting a five minute oral presentation fluently and expressively; by writing an expanded piece in German clearly and concisely expressing their thoughts in two hundred words or more; by listening to expanded conversations and other discourse spoken by native German speakers with comprehension; as well as by reading extended texts independently with comprehension. Students will take a school final examination.

5150 AP GERMAN 5

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Successful completion of German 4.

Thematic units form the foundation of the learning in Advanced Placement German 5. Grammar instruction in the context of these themes is focused on ensuring that students develop understanding in all skill areas at an advanced level. While most advanced grammar has been learned in Level 4, Level 5 focuses on further practicing this grammar and further learning the nuances of the German language structure. Vocabulary and idiomatic expressions are also taught in context. Students will routinely be expected to make oral presentations, both spontaneous and planned, and write lengthy pieces of two hundred words or more responding to the themes covered. Students will take a school final exam. **The AP Exam is required.**

5210 ITALIAN 1

(1 Unit - Full Year)

(Factor 8)

This course is an introduction to the Italian spoken and written language and its cultures. The course work involves practice in reading, writing, listening and speaking about everyday situations in Italian. Students will be able to ask and understand basic information to be able to effectively communicate in the language. In addition, this course will seek to enhance the understanding of the Italian speaking world through authentic Italian materials and cultural experiences. Students will take a school final exam.

5220 ITALIAN 2

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of Italian 1.

The four basic skills will be further developed and a greater emphasis will be placed on speaking and writing skills. The first part of the textbook "Oggi in Italia" will be completed. Students will take a school final examination.

5230 ITALIAN 3 R

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of Italian 2.

This course will further develop the four skills with special emphasis on oral communication in class. There will be frequent testing of listening, speaking, and reading comprehension skills. The second part of the textbook "Oggi in Italia" will be completed. More detailed cultural study with its implications as found in the reading assignments. Students will take a school final examination.

5240 ITALIAN 4

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Successful completion of Italian 3 R including the level 3 final examination.

Emphasis will be on the perfection of previously acquired listening, reading, writing and speaking skills. Review of grammar, vocabulary, and usage as well as continued studies of culture, art, and literature will be presented through various sources and materials. Students will take a school final exam.

In addition, student will have the opportunity to receive three college credits through the Dutchess Community College program by meeting the course requirements.

5250 AP ITALIAN 5

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Successful completion of Italian 4.

The course will use thematic units for students interested in further developing their Italian language skills. Students will be expected to make oral presentations, write long essays and practice their grammar. Students will take a final examination.

In addition, student will have the opportunity to receive three college credits through the Dutchess Community College program by meeting the course requirements.

5410 SPANISH 1

(1 Unit - Full Year)

(Factor 8)

This course is an introduction to Spanish as a spoken and written language. The course work includes regular, repetitive practice where students are expected to read, write, and speak about their immediate world which would include their interests, school life, family, friends and self. They will be able to ask and understand basic information to be able to effectively communicate in the language. In addition, this course will seek to enhance an understanding of the diverse cultures of the Spanish speaking world through authentic Spanish materials such as newspaper clippings, headlines, and advertisements. Students will take a school final exam.

5420 SPANISH 2

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of Spanish 1.

A continuation of the development of the four skills started in Level 1 through the use of the same materials listed above but on a slightly advanced scale. Students will take a school final.

5430 SPANISH 3 R

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Successful completion of Spanish 2.

This course will further develop the four skills with special emphasis on speaking and writing. There will be more frequent testing of listening, speaking and reading comprehension skills. More detailed cultural studies as found in reading assignments. Students will take a school final examination.

5440 SPANISH 4

(1 Unit - Full Year)

(Factor 9)

Prerequisite: Successful completion of Spanish 3 R including the level 3 final examination.

Review of grammar with emphasis on the ability to express oneself in speaking and writing. Classes conducted in Spanish. Selected readings of Spanish authors, history, geography, art, music, life and people taken from a variety of texts, magazines and newspapers. Tapes, films, slides, CD's and videos are used in conjunction with the above.

Requirements: Satisfactory completion of written reports, oral participation in class work based on reading assignments and completion of oral reports in Spanish. Student will take a school final exam.

5450 AP SPANISH 5

(1 Unit - Full Year)

(Factor 10)

Prerequisite: Successful completion of Spanish 4.

The Advanced Placement Spanish course covers the equivalent of a third year college course in Advanced Spanish Composition and Conversation. The course stresses oral skills, composition and grammar, and involves regular practice of all four communication skills (listening, speaking, reading and writing). There is also a strong cultural component. The course is conducted entirely in Spanish and emphasizes the use of Spanish for active communication. The objectives for the course are as follows:

- Students will comprehend formal and informal spoken Spanish.
- Students will acquire sufficient vocabulary and knowledge of structure to allow easy, accurate reading of newspaper and magazine articles as well as literary excerpts.
- Students will compose expository passages.
- Students will express ideas orally with reasonable accuracy and fluency.

The AP Spanish course is intended for those students who are seriously interested in continuing to develop their language skills and are willing to devote the time necessary to succeed. Successful completion of this course requires active daily oral participation, satisfactory completion of all class work, mastery of grammatical themes and a school final examination based on the Advanced Placement Spanish Language Exam. **The AP exam is required.**

ART

# Art Department Advanced Electives

ADVANCED  
PLACEMENT  
IN  
STUDIO ART  
1 UNIT

ADVANCED  
PLACEMENT  
IN  
ART HISTORY  
1 UNIT

ADVANCED  
GLASSWORKING  
1/2 UNIT

ADVANCED  
DRAWING  
1/2 UNIT

PORTFOLIO  
DEVELOPMENT  
1/2 UNIT

DIGITAL  
IMAGING  
1/2 UNIT

POTTERY  
1/2  
UNIT

ADVANCED  
PAINTING  
1 UNIT

ADVANCED  
COMPUTER  
GRAPHICS  
1 UNIT

SCULPTURE  
SEM 1 OR 2  
1/2 UNIT

IMAGINATIVE  
SOLUTIONS  
AND  
DESIGN  
1/2 UNIT

DYNAMICS  
OF  
VISUAL  
COMMUNICATION  
1/2 UNIT

ADVERTISING  
DESIGN  
1 UNIT

GLASSWORKING  
SEM 1 OR 2  
1/2 UNIT

CERAMICS  
1 & 2  
1/2  
UNIT

DRAWING  
AND  
PAINTING  
1 UNIT

STUDIO  
IN  
PHOTOGRAPHY  
1 UNIT

COMPUTER  
GRAPHICS  
1 UNIT

STUDIO IN ART AND STUDIO IN CRAFTS  
FOUNDATION COURSES IN ART

The Art Department embraces the four New York Learning Standards for the Arts in all of its programs of study. The standards are:

*Creating, Performing, and Participating in the Arts*  
*Knowing and Using Arts Materials and Resources*  
*Responding to and Analyzing Works of Art*  
*Understanding Cultural Dimensions and Contributions of the Arts*

For the Advanced Regents Diploma, a student may substitute a 5 unit sequence in Art for the 3 unit Foreign Language Requirement. Students interested in developing a portfolio as part of a college admissions requirement should plan a sequence in art through the Art Department.

6000 STUDIO IN ART ACCELERATED (1/2 Unit – Fall Semester) (Factor 8)

Prerequisite: Successful completion of 8<sup>th</sup> grade Art Enrichment Course.

The emphasis of this course is to build on and continue studying the Elements and Principles of Art, started in the 8<sup>th</sup> grade, while working on several new pieces in four core areas. The studio projects involve: Art History and Criticism, Landscape Drawing, Sculpture and Design, and Art as Communication. Students will produce art in a variety of media, participate in critiques of their work, maintain a notebook and complete assessments including a practical exam.

Studio in Art Accelerated is a foundation course, and is the pre-requisite for many advanced art electives.

6010 STUDIO IN ART (1 Unit - Full Year) (Factor 8)

Prerequisite: None

Studio in Art provides students with a wide range of art experiences through the exploration of a variety of media and techniques. The Elements of Art and the Principles of Design are examined in the course as students complete projects in two and three-dimensions. For example, the students will complete works in pen and ink, marker, pencil, charcoal and pastel. They will make sculptures in clay, wire and cardboard and create projects in watercolor, tempera, acrylic and graphic arts. This is an exciting and interesting course for the student who wants to try many different art materials. Studio in Art is the prerequisite for art electives and students interested in an art sequence are encouraged to take this course first. It fulfills the diploma requirement for 1 unit of art for graduation. Students may take *either* Studio in Crafts *or* Studio in Art but not both since they are similar courses in Art.

## 6040 STUDIO IN CRAFTS

(1 Unit - Full Year)

(Factor 8)

Prerequisite: None

Studio in Crafts involves the student in a wide range of two and three-dimensional media studies. Clay, fabric arts, printmaking, copper tooling, mask making, book binding, and calligraphy and graphic arts are a few examples. Studio in Crafts is an introductory course in art which can lead to Ceramics, Sculpture, Glassworking and other elective art courses. The study of the Elements of Art and the Principles of Design forms the basis of the course by creating a number of projects using craft materials. Students who enjoy hands on activities may enjoy this course and will gain an appreciation of crafts as an area of art. Studio in Crafts fulfills the diploma requirement for 1 unit of art for graduation. Students may take *either* Studio in Crafts *or* Studio in Art but not both since they are parallel courses in Art.

## 6060 DYNAMICS OF VISUAL COMMUNICATION (1/2 Unit – 1 Semester)(Factor 8)

Prerequisite: Studio in Art or Studio in Crafts

This art elective is a studio course that emphasizes the communication of ideas in visual terms so that a message is conveyed. Instruction is provided in the areas of commercial art and graphic design. Studio work will explore a variety of media in the production of CD cover designs, logos, word illustrations, shopping bag designs, pictorial alphabets, posters, billboards and self-portrait resumes. Developing original works of art which express personal meaning are attributes of this studio course. Student requirements include successful completion of studio projects; assessments and a final project at the completion of the course.

## 6070 IMAGINATIVE SOLUTIONS AND DESIGN (1/2 Unit – 1 Semester)(Factor 8)

Prerequisite: Studio in Art or Studio in Crafts

Students will explore creative problem solving through composition using a variety of art materials and resources. This course investigates the combination of two dimensional and three dimensional components in the development of strong design and composition. This class is a studio course and includes the creation of works such as textural collages, relief prints, altered books and assemblages. Students will enjoy a range of solutions in their individual works of art. Student requirements include successful completion of studio projects; assessments and a final project at the completion of the course.

6080 STUDIO IN DRAWING AND PAINTING (1 Unit - Full Year) (Factor 8)

Prerequisite: Studio in Art or Studio in Crafts

A course concentrating on the development of drawing and painting skills through a complete introduction to various two dimensional techniques including pencil, charcoal, pastels, pen and ink, scratch board, watercolor, tempera, and acrylic. Emphasis is on skills development and studio work. Students should realize that drawing skills are emphasized and expect to work seriously to develop these skills.

Student requirements include completion of studio assignments, development of a portfolio, sketchbooks, assessments and a final exam.

6090 STUDIO IN COMPUTER GRAPHICS (1 Unit - Full Year) (Factor 8)

Recommended: Studio in Art or Studio in Crafts or other art credit course

Studio in Computer Graphics is an art elective designed to involve the student in the use of the computer as a tool for image making. Students will learn a variety of software packages that will enable them to move through units of study in the exploration of technique and creative problem solving. The creation of original graphic art utilizing illustration software and the skillful use of the Apple Mac computer will be studied in the course.

6095 ADVERTISING DESIGN (1 Unit - Full Year) (Factor 8)

Prerequisites: Studio in Computer Graphics

Advertising Design is a full year studio course in which students will use computer software to develop works of art for commercial applications. Students will study graphic design principles and apply them in the completion of a range of studio work including retail display advertising, print publication advertising, poster design, packaging design, disc covers and inserts, brochures, book jackets, magazine covers, business cards and logo designs. Students will also practice copywriting and study the concept of visual identity and branding.

6100 STUDIO IN ADVANCED COMPUTER GRAPHICS(1 Unit – Full Year)(Factor 8)

Prerequisite: Studio in Computer Graphics

This is an advanced art elective for the serious computer art student that has successfully completed the full year course Studio in Computer Graphics. Students will be required to learn additional software programs in the areas of 2-D and 3-D animation, web-page design and motion graphics. Areas of study include Dreamweaver, Web, iMovie, Garage Band, Flash, Carrara, In-Design and Painter. This course is structured for the independent worker who is able to make design applications of practical knowledge in a creative and dynamic way.

6110 DIGITAL IMAGING

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisites: Studio in Computer Graphics or Advanced Computer Graphics or Advertising Design unless waived upon approval from the instructor.

This course is offered either in the fall or spring and may be repeated for additional credit as the nature of the coursework will change.

Digital Imaging is a course designed for students who desire to complete advanced, independent projects in digital media. Typical projects include DVD Portfolios of the student's work, Flash movies, 3-D animated movies and large format digital images. In addition to Adobe Creative Suite of software, the course will also utilize the I-series of software in the Mac Lab. These will include I-Movie, I-DVD, I-Tunes, I-Photo and Garage Band. Students will develop project plans describing their processes and expected outcomes for each project.

This course is offered on a Pass/Fail basis. In order to receive a numeric grade, it will be the responsibility of the student to file a form, provided by the Art Department

6120 ADVANCED STUDIO IN PAINTING (1 Unit - Full Year)

(Factor 8)

Prerequisites: Studio in Art **AND** Studio in Drawing and Painting **OR** Studio in Crafts **AND** Studio in Drawing and Painting

This is a course for students who have successfully completed the requirements for Drawing and Painting. Styles and techniques are studied and practiced leading to the development of the students own painting skills. Appreciation of painters in history is an integral part of the course. Although emphasis is placed on oil painting, other media such as watercolors, pastels, and acrylics will be explored.

Student requirements include development of a professional portfolio and completion of a final exam, in addition to successful completion of studio assignments.

The student enrolling in this course may be asked to purchase some basic materials for this course.

6130 ADVANCED STUDIO IN DRAWING (1/2 Unit - 1 Semester) (Factor 8)

Prerequisites: Studio in Art **AND** Studio in Drawing and Painting **OR**  
Studio in Crafts **AND** Studio in Drawing and Painting

This course is designed to involve the student in advanced drawing techniques using a variety of media including charcoal, conte crayon, pastel and pencil. Figure and portrait drawing, still life drawing as well as other advanced assignments will be covered, while encouraging more independent and creative approaches to drawing.

Student requirements include successful completion of studio assignments, development of a portfolio and a final project at the conclusion of the course. The student enrolling in this course may be asked to purchase some basic materials.

6150 SCULPTURE (1/2 Unit - 1 Semester) (Factor 8)

This course is open to all students who have **completed a foundation course through the art department**. Sculpture is a half credit course which can be taken in either the fall or spring semesters or for two semesters for full credit, since the sculptures will change for each semester.

In this exciting course, students will be engaged in a wide range of sculpture projects using a variety of materials. Techniques such as carving, modeling, and working with an armature will be explored. Materials include wood, stone, metal, found objects and assemblage, clay, glass, paper mache, and cardboard among others. Students completing this course of study will be able to include several 3-dimensional works in their portfolio.

Student requirements include successful completion of studio assignments, development of a portfolio, and a final project at the conclusion of the course.

6180 STUDIO IN CERAMICS 1

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Studio in Art or Studio in Crafts

Studio in Ceramics 1 is a comprehensive study of the creative possibilities of clays and glazes. Emphasis is on hand building with the student being introduced to the methods and techniques of modeling, slab building, and coil construction including an introduction to wheel thrown pottery. Projects may range from functional objects to objects that are purely aesthetic in nature.

Student requirements include successful completion of studio assignments, assessments and a final exam and project.

6190 STUDIO IN CERAMICS 2

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Studio in Ceramics 1

Studio in Ceramics 2 is a continuation of Studio in Ceramics 1. Students will explore a variety of hand building techniques used to create ceramic art. In this course students will be expected to develop their own ideas within project guidelines while increasing the scale and complexity of their pieces. The students will also study contemporary ceramics and look at examples of clay work in an historical context. Studio in Ceramics 2 is an exciting course for the independent crafts person that enjoys the clay medium.

Student requirements include successful completion of studio assignments, assessments and a final exam and project.

6200 POTTERY

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Studio in Ceramics 1 AND Studio in Ceramics 2

Pottery is a course devoted to the construction and decoration of ceramic vessels. Students will have an opportunity to experience hand building and the pottery wheel in the creation of a variety of pottery forms. Students will be encouraged to make functional pieces as well as those that are purely aesthetic in nature. Pottery provides students with the opportunity to work on ware sets, slip casting and wheel thrown pieces.

Student requirements include successful completion of studio assignments, assessments and a final exam and project.

6210 STUDIO IN PHOTOGRAPHY

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Studio in Art, Studio in Crafts or Photo Tech I

Studio in Photography is a full year advanced art elective that explores the fundamentals of photography. This course can be taken by students that do not have any experience in taking pictures. In this class students learn how to use a camera, how to develop film and how to print a photograph. Shooting assignments include portraiture, landscape, action photography, double exposure and a variety of other creative projects. After completing these assignments students will be encouraged to explore topics of a personal interest. Each student will be expected to develop their own unique style of representation and to exhibit their work in the annual photography show. A 35 mm camera is required for this course.

Students enrolling in this course may be required to purchase some basic materials.

6230 STUDIO IN GLASSWORKING

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Studio in Crafts or Studio in Art

Glassworking builds on the foundation course Studio in Crafts providing the student with an in depth exploration of the techniques and applications associated with the glass medium. Glassworking techniques will be applied in units of study that include enameling, fusing and slumping, lampworking and etched and stained glass. Historical influences ranging from antiquity to the contemporary will be studied. Students are required to maintain a notebook and complete assessments including a final exam.

The student enrolling in this course may be required to purchase some materials.

6240 STUDIO IN ADVANCED GLASSWORKING (1/2 Unit – 1 Semester)(Factor 8)

Prerequisite: Studio in Glassworking

Advanced Glassworking will build on the Studio in Glassworking course and allow students to develop complex and intricate works of art in glass. Specifically, the course will provide students with the opportunity to focus on kiln formed glass and lampworking. Students will be encouraged to develop their own personal style and make artistic statements while completing an in depth exploration for each technique. This advanced course provides the student with an opportunity to create unique three dimensional works of art for inclusion in a college art portfolio.

The student enrolling in this course may be required to purchase some materials.

6250 ADVANCED PLACEMENT IN STUDIO ART

5 periods per cycle

(1 Unit – Full Year)

(Factor 10)

Prerequisites: **Studio in Art AND Studio in Drawing and Painting OR Studio in Crafts AND Studio in Drawing and Painting** and any *one* of the following: Advanced Painting, Advanced Drawing, Studio in Photography or Computer Graphics.

This is an advanced elective for the serious student of art who is planning to pursue art in college. Students will be required to complete three portfolios in one of the following courses of study: Drawing or 2-D Design or 3-D Design. These portfolios are the Breadth Portfolio, the Concentration Portfolio and the Quality Portfolio, all of which are submitted for adjudication in early May.

The coursework demands a high level of commitment and requires a considerable amount of outside work. The AP program in Studio Art is structured for the independent worker who is able to be motivated out of a strong desire to succeed in the visual arts.

The student will receive guidance and instructions in all aspects of the course while learning to make visual solutions in a creative and thoughtful manner. Other aspects of the course include preparing and photographing portfolios, the development of an artist's statement, art criticism and extensive work in a variety of media. Student requirements include completion of all studio assignments as per the curriculum and AP guidelines. A one period per week lab period is required and will be part of the student's schedule, or, it will have to be completed after school. Class participants may be required to purchase some materials.

Students are required to bring to class the first week of school FIVE portfolio quality artworks. These artworks are NOT to be copies of photographs, instead they should be original artworks. Artworks drawn or painted from direct observation are recommended.

Students completing the 2-D Design, Drawing or 3-D Design Portfolios may also complete an additional course of study in AP Studio Art the following year. This may result in additional AP credit provided that the work is successfully completed in a second portfolio area. Students enrolled in the AP Studio 3-D Design Portfolio course must complete the program of study through the Art Department's Sculpture course of study.

AP Studio Art should not be confused with Studio in Art, the foundation art course in NY State.

6260 ADVANCED PLACEMENT ART HISTORY (1 Unit – Full Year) (Factor 10)

Prerequisites: None

Recommendations: Good academic standing, and successful completion of Global Studies.

This is a college-level introduction to Art History. The course is a chronological survey of architecture, painting, sculpture, and photography of the western tradition and selected works from a variety of cultures beyond European conventions.

Students will analyze artworks from daily slide presentations in class. Students will improve their visual skills and their ability to write succinctly through regular practice on tests and through one substantial research project. While students learn to analyze individual artworks, they also arrive at meaningful conclusions on larger themes and cultural developments through time.

Students are encouraged to take the class as a junior while many students enjoy the class during their senior year.

**The AP Exam, in mid-May, is required.** Students who successfully complete the examination with a 3.0 or better may possibly earn college credit.

6270 STUDIO IN PORTFOLIO DEVELOPMENT (½ Unit – 1 Semester) (Factor 8)

Prerequisites: Two units of Art credit\*

This course is designed for the student who wants to develop an art portfolio but for a variety of reasons has not completed a full complement of art courses through the Art department. The goal of the course is to create 10 – 15 portfolio quality works of art in either the *fall of the senior* year or *spring of the junior* year.

Art Portfolio is aimed at the serious student who has a range of art experience and may have completed prior coursework through the Technology department, Family and Consumer Sciences department or in private lessons. This course should not replace Drawing and Painting, Advanced Painting or AP Studio Art but is structured to provide an opportunity to develop works of art in a variety of media in a relatively short period of time. Extensive outside work is required and a strong desire to succeed is of great importance. Media utilized includes charcoal, pastel, ink, watercolor, tempera paint, acrylic, cardboard and mixed media. An art journal and sketchbook is also required.

\*Pre-requisites include at least **two** units of study in another department area for which **art credit** is given. Studio in Art or Studio in Crafts **and another** advanced art elective may also be used.

The following courses in the Technology and the Family & Consumer Science Departments may occasionally be used to meet the art requirement needed for graduation. Please refer to the Technology and Family & Consumer Science sections for specific course descriptions and requirements. Students interested in developing a portfolio as part of a college admissions requirement should plan a sequence in art through the Art Department.

<u>8060 INTRODUCTION TO ENGINEERING DESIGN – IED/DDP</u>	(Factor 9)
<u>8120 ENGINEERING DRAWING &amp; DESIGN/CAD</u> (1 Unit - Full Year)	(Factor 9)
<u>8131 THE WRLD OF ARCHITCTRE/STRUCTRL</u> (1 Unit - Full Year)	(Factor 9)
<u>8151 PHOTO TECHNOLOGY 1</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8162 PHOTO TECHNOLOGY 2</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8170 DIGITAL PHOTO TECHNOLOGY</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8200 FILM TECHNOLOGY</u> (1/2 Unit – 1 Semester)	(Factor 8)
<u>8220 JEWELRY</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8640WORLD OF FASHION</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8650 FASHION FOR YOUR FUTURE</u> (1/2 Unit - 1 Semester)	(Factor 8)
<u>8660 PAPER TO PINS</u> (1/2 Unit - 1 Semester)	(Factor 8)

## MUSIC & THEATRE ARTS

All courses in the Music Department, with the exception of Music Theory, Rudiments of Music, Piano 1 and 2 are offered with the option of choosing either a numeric grade (i.e. 95, 87, etc.) or an alphabetical grade (i.e. A, B, C, D, F).

Music Theory, Rudiments of Music, Piano 1 and 2 can be taken on a Pass/Fail basis only if it is not taken in a sequence. Students who are eligible for and wish to exercise their option of taking Music Theory, Rudiments of Music, Piano 1 and 2 on a pass/fail basis must follow the procedure outlined under **CONDITIONS FOR PASS/FAIL OPTION** that are explained in the opening pages of this guide book.

For all other music courses, in order to receive a numeric grade, it will be the responsibility of the student to file a form, provided by the music department, signed by his or her parents authorizing the student to receive a numeric grade by the deadline date.

Group lessons are an integral part of the music program at Arlington High School. Each student must attend a music lesson once a week on a rotating basis. The only reasons accepted for missing a lesson are:

1. Full period test or a quiz for part of the period – after completing the quiz, the student is expected to report to the lesson.
2. Science labs
3. Borderline or failing a class
4. Field trip

If a student has lunch the same period as their lesson they are to go to lunch first and eat their lunch and then come down to the lesson (packing a bag lunch will guarantee that the student will have plenty of time to eat).

The following procedures should be followed for an excused absence:

1. Sign in on the Lesson Excuse sheet in the book at the front of the class
2. Take a “Music Lesson Excuse” pass which is located next to the sign-out sheet and get the completed pass back to the music teacher by the end of the day or at the latest the next day.

Lessons missed must be made up in a timely manner. The student is responsible for setting an appointment with the music teacher for this purpose.

6510 RUDIMENTS OF MUSIC

(1/2 Unit - 1 Semester)

(Factor 8)

Rudiments of Music is for students with little or no music theory, aural skills, or music reading background. The course will focus on becoming acquainted with a variety of topics including: rhythmic, melodic and harmonic notation, ear training, sight reading, composition, arranging, and improvisation. Rudiments of Music will target basic musicianship skills such as music reading, some piano technique, analysis of harmonic progression, compositional structure and form. The course serves as a strong foundation for Music Theory.

6520 PIANO 1

(1/2 Unit - 1 Semester)

(Factor 8)

Requirement: Supplemental materials will need to be purchased at the beginning of course.

Piano 1 focuses on becoming acquainted with the instrument through a variety of materials: basic technique and sight reading, solo and ensemble playing, composition and improvisation. This course also correlates with basic musicianship skills: music reading, piano technique and an introduction to music theory.

6530 PIANO 2

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Piano 1 or approval by instructor.

Requirement: Supplemental materials will need to be purchased at the beginning of course.

Piano 2 is a continuation of Piano 1 and will go more in depth with piano technique and literature.

6550 MUSIC THEORY

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Approval of the instructor or the successful completion of Rudiments of Music (6510) is required to enter course.

This is a required course for students who plan to receive a sequence in music. Music Theory is a college preparatory course for students in Grades 10 – 12 requiring knowledge of the fundamentals of music notation and leads into four-part chorale style writing, voice leading, analysis, harmonization of melodies, and realization of figured bass. Aural skills will emphasize melodic, rhythmic and harmonic aspects of theory.

6600 NINTH GRADE BAND

(1 Unit - Full Year)

(Factor 8)

The Ninth Grade Band is open to all qualified wind and percussion players in grade 9. The objective of the Ninth Grade Band is to continue the development of performance skills and to develop an appreciation of music. The band performs in various school concerts throughout the year. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons and performances.

6620 CONCERT BAND

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

The Concert Band is open to all qualified wind and percussion players in grades 10 and 11. The objective of Concert Band is to develop an appreciation of music through performance. The band performs in various school concerts throughout the year. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons and performances.

6630 SYMPHONIC BAND

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

The Symphonic Band is open to more advanced wind and percussion players in grades 10 through 12. The objective of Symphonic Band is to develop an appreciation of music through performance. The band performs in various school concerts throughout the year. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons and performances.

6640 WIND ENSEMBLE

(1 Unit- Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

The Wind Ensemble is comprised of the most advanced wind and percussion players in grades 10 through 12. The Wind Ensemble performs literature written for advanced high school and college bands. The band performs in various school concerts throughout the year. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons and performances.

6720 MIXED CHORUS

(1 Unit - Full Year)

(Factor 8)

Mixed Chorus is open to all qualified vocalists in grades 9 through 12. It meets every day with an additional small group voice lessons to develop skills in vocal production and the reading of music. Placement in this course is by recommendation from the middle school or high school choral director. Credit is contingent upon satisfactory participation in all required rehearsals, voice lessons, and performances.

6740 CONCERT CHOIR

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

Concert Choir is for the advanced level vocalist. It meets every day with an additional weekly small group music lesson. In addition to performing various styles of literature, students will be required to develop skills in vocal techniques and music reading. Credit is contingent upon satisfactory participation in all required rehearsals, voice lessons, and performances.

6800 SYMPHONETTE

(1 Unit - Full Year)

(Factor 8)

Symphonette is open to all qualified ninth grade string players. The Symphonette performs at both school concerts and in the community. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons, and performances.

6820 SINFONIA

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

Sinfonia is a full orchestra, which is open to all qualified string, wind and percussion players in grades 10-12. Repertoire includes both standard orchestra literature and enjoyable light classical selections. Sinfonia performs at regularly scheduled school concerts and in the community. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons, and performances.

6840 SYMPHONY ORCHESTRA

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

Symphony is a full orchestra that will rehearse and perform the classical and popular standard orchestral repertoire. Symphony is open to all qualified string, wind and percussion players in grades 10 – 12. Symphony performs at regularly scheduled school concerts and in the community. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons, and performances.

6850 PHILHARMONIA ORCHESTRA (1 Unit – Full Year) (Factor 8)

Prerequisite: Grade 10-12 AND approval of Ensemble Director

Philharmonia is comprised of the most advanced string, wind and percussion players in grades 10 – 12. Philharmonia will extensively rehearse and perform original works from the standard orchestral and popular repertoire. Philharmonia will perform at regularly scheduled school concerts, numerous school functions and in the community. Credit is contingent upon satisfactory participation in all required rehearsals, group lessons, and performances.

### **THEATRE ARTS**

1480 INTRODUCTION TO DRAMA (1 Unit - Full Year) (Factor 8)

Prerequisite: None

Description: This course is open to all high school students wishing to obtain fine arts credit in theatre arts. The curriculum is broad with the purpose of exposing the student to all aspects of theatre. The course is entirely participatory and includes the following units of study: theatre games, pantomime, improvisation, character study, scene study, theatrical lighting, stage combat, Shakespearean games, and radio and television commercials and monologues. In addition, the course will include the rehearsal and production of one play to be performed for a portion of the student body in the Frank J. Pepe Jr. Black Box Theatre. Through this performance opportunity the students will learn costuming, scenic design, sound and props. Introduction to Drama meets all New York State Standards for the Arts.

◆ This course does not meet NCAA eligibility standards.

1490 THEATRE PRODUCTION CLASS PRACTICUM (1 Unit - Full Year)(Factor 8)

Prerequisite: Introduction to Drama or at least two years of experience with Admiral Players

Description: In this course the students will act in and produce a scene night, play, or musical comedy to be performed for the public each semester. Students will explore and learn the process of mounting a theatrical production for the beginning to the end. During the participatory component, the students will rehearse the material from chosen scenes or plays. Production responsibilities will include scenery, costumes, props, and stage management. Administrative aspects of the course will consist of securing royalties, marketing and publicity, playbill design, box office, and house management. **There will be two after school rehearsals per semester.** Theatre Production meets all New York State Standards for the Arts.

◆ This course does not meet NCAA eligibility standards.

## BUSINESS EDUCATION

The Business Education program is comprehensive and designed to meet personal, college and career needs of the Arlington High School students.

Our purpose is to prepare students for entry-level employment in the business office and marketing occupations and for post-secondary studies in business. It also provides opportunities for students to learn about business as it relates to their personal lives. To enhance this purpose, we also encourage participation in the Cooperative School-to-Work Program, the school store, and our Future Business Leaders of America (FBLA) club.

We encourage all students to take a business course to learn about the world of business. Each of our labs uses the most updated computer equipment available. Three of our rooms are equipped with Smartboards. In addition, the Business Department issues more awards at graduation than any other department.

Please note the following:

- All courses are open to any student for elective credit.
- The Business of Music course fulfills 1/2 credit towards the Art/Music elective graduation requirement.
- Any business course taken on a pass/fail basis may not be used as a unit for a business sequence.
- For the Advanced Regents Diploma, a student may substitute a 5 unit sequence in Business Education for the 3 unit Foreign Language requirement.

### Five Unit Sequence

Required: Career and Financial Management (1/2 Unit)

Plus 4 1/2 units from the following:

Accounting	(1 Unit)	Keyboarding 1	(1/2 Unit)
College Accounting	(1 Unit)	Keyboarding 2	(1/2 Unit)
Business Law	(1 Unit)	BCA/Microsoft Office Suite	(1 Unit)
Co-op Work Experience	(1 Unit)	Business Management	(1 Unit)
Sports and Ent. Marketing	(1 Unit)	Business of Music	(1/2 Unit)
E-Commerce	(1/2 Unit)	College Prep/Microsoft	(1/2 Unit)
College Intro to Business	(1/2 Unit)	Fashion Marketing	(1/2 Unit)
College Marketing	(1/2 Unit)		

The following Business Education courses may be taken for personal use, but may NOT BE USED AS PART OF A BUSINESS SEQUENCE:

Integrated Computer Skills/Applications	(1/2 Unit)
Microsoft Office for Business	(1/2 Unit)
Personal Money Management	(1/2 Unit)
Computerized Accounting Applications	(1/2 Unit)

7000 KEYBOARDING 1

(1/2 Unit - 1 Semester)

(Factor 8)

Strongly recommended for all students

With the increase in technology in the home as well as in the business world, alphabetic and numeric keypads have become commonplace communicative devices. This keyboarding course is designed to develop touch keyboarding skills so that students may use the skill in their personal lives or as a supportive skill in their jobs. The course will further develop the techniques, concepts and skills of keyboarding while applying these skills to relevant occupational situations. Students will also be given an introduction to computer operations.

7010 KEYBOARDING 2

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Keyboarding 1

This course emphasizes the further development of keyboarding competency needed for entry level employment. Office correspondence and advanced keyboarding applications are emphasized.

7020 COLLEGE PREP/MICROSOFT

(1/2 Unit - 1 Semester)

(Factor 8)

This course is open to all students, and is recommended for all students before graduation.

Students will learn to use the components of the Microsoft Office Suite, including Word, Excel, PowerPoint, Access, and Publisher. The emphasis of this course is not on programming; students will learn to use different types of software in school or on the job.

7030 E-COMMERCE

(1/2 Unit – 1 Semester)

(Factor 8)

Learn about successful online businesses! Students will select one company and study the way the company operates online. The most successful companies adapt their business model to take advantage of the Internet and its ability to reach global markets. Topics covered include Internet marketing, global e-commerce, Internet security and privacy, and effective website design. Coding and programming for web pages is NOT part of this course.

7070 CAREER AND FINANCIAL MANAGEMENT

(1/2 Unit – 1 Semester)

(Factor 8)

Required course for all BUSINESS EDUCATION SEQUENCES

This course is designed to introduce students to the realities of the working world. The course examines the considerations involved in choosing a career and its relationship to lifestyle choices. It also focuses on the interrelationships among human needs, wants, values, and goals as they apply to management of personal and financial resources. Topics covered include Career exploration; job applications; job interviews; business letters; resume writing; and our economic system.

7100 ACCOUNTING

(1 Unit - Full Year)

(Factor 8)

A course designed to develop occupational competency in bookkeeping. Course content encompasses the complete accounting cycle. This course is also recommended for students going on to post-secondary accounting training.

Historically, accounting at this level has benefited those students who plan on majoring in accounting in college.

7120 COLLEGE ACCOUNTING

Dutchess Community College - ACC 101 & 102

(1 Unit - Full Year)

(Factor 10)

A course for Juniors and Seniors.

Recommendation: Accounting grade 90 or above.

A full year course designed to develop occupational competency in accounting. The course will cover in one year the same materials presented in Accounting and Advanced Accounting. The material covered is what most colleges cover in a one year Accounting I & II courses.

This course is offered in conjunction with Dutchess County Community College and provides students the opportunity to earn 8 college credits through this one year class (4 college credits for successfully completing the first semester program of study, and 4 additional college credits for the second semester of study). The course is tuition-free, however, students may be required to purchase the textbook and supplemental materials.

This is a college level course for students planning careers in accounting or a related career in business. The highly motivated, academically advanced student would most benefit from this course. The student need not be a business sequence student. Accounting I students wishing to take this course must get a recommendation from the Accounting I teacher.

7125 COMPUTERIZED ACCOUNTING APPLICATIONS

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisite: Accounting or College Accounting

This course is designed to introduce the student to the use of the computer in an accounting environment and give the student the skills necessary to record and prepare accounting transactions and reports. The student will be required to apply accounting knowledge through the use of Microsoft Excel and an accounting software package. Students will learn to electronically prepare accounting transactions, financial statements, financial budgets and other relevant business reports for both service and merchandising industries.

7130 BUSINESS LAW

(1 Unit - Full Year)

(Factor 8)

This course is designed for Sophomores, Juniors and Seniors.

This course may be used to meet requirements for Business Sequence.

Business Law is the study of laws and principles used in carrying out business transactions and dealings. The main topic covered, the Law of Contracts, is constantly used in our daily lives. Also covered: Bailments; Credits; Commercial Paper; Employment; Agency Insurance; Property Rights; Wills and Estates; Income Taxes and Business Organization Law. Field trips and guest speakers will be used to further instruct students on law concepts.

7150 FASHION MARKETING

(1/2 unit – 1 Semester)

(Factor 8)

This course is designed for Sophomores, Juniors and Seniors.

This course may be used to meet requirements for Business Sequence.

This course is designed to present fashion marketing and merchandising in order to show students the place of apparel and accessories in the world of fashion. Students will study the manufacture and materials of men's, women's, and children's clothing through the history of the apparel market. Organizing and producing a successful fashion show will be discussed. Specific careers in the fashion industry will also be explored.

7160 SPORTS AND ENTERTAINMENT MARKETING

(1 Unit - Full Year)

(Factor 8)

This course is designed for all students.

The purpose of this course is to integrate the basic principles of marketing with the sports and entertainment industries. Topics will include promotions, endorsements, public relations and countless other sports and entertainment related topics in marketing.

The course is designed to pique the interest of students who would like to pursue a career in these fields. In addition, it will educate students as to what goes on behind the scenes in the business.

This course is recommended to all students especially to those who would like to pursue a career in business.

7164 COLLEGE INTRO TO BUSINESS

Dutchess Community College – BUS 102

(1/2 Unit – 1 Semester)

(Factor 9)

A course for highly motivated Juniors and Seniors.

This course is offered in conjunction with Dutchess Community College and provides students the opportunity to earn 3 college credits through this one semester class. The course is tuition free; students may be required to purchase supplemental materials and/or a textbook.

Students will gain a basic understanding of the American business system, including; economics systems; forms of business ownerships; legal aspects of business; management of scarce resources; capital acquisition and financing; and accounting.

Because this is a college level class, the highly motivated, academically advanced student would most benefit from this course. The student need not be a business sequence student.

7165 COLLEGE MARKETING

Dutchess Community College - BUS 107

(1/2 Unit – 1 Semester)

(Factor 9)

A course for highly motivated Juniors and Seniors

A half year course designed to study the principles underlying the development and distribution of goods and services for organizational and consumer needs. The course will cover in ½ year the same materials presented in marketing courses at most colleges.

This course is offered in conjunction with Dutchess County Community College and provides students the opportunity to earn 3 college credits through this half year class. The course is tuition-free, however, students MAY be required to purchase the textbook.

This is a college level course for students planning career in marketing or a related career in business. Topics include: development of the marketing concept, legal and cultural environment, marketing research, segmentation, buyer behavior, product development, pricing, wholesaling, retailing, advertising, selling and Internet applications. The highly motivated, academically advanced student would most benefit from this course. The student need not be a business sequence student.

7170 BUSINESS OF MUSIC

(1/2 Unit – 1 Semester)

(Factor 8)

Business of Music is a half-year course designed to familiarize students with the traditional principles of business as these principles apply to the music industry. Course topics include music industry careers, marketing, contracts and copyrights, and current ethical issues such as downloading music from the Internet.

This course is designed for all students, and will showcase the music industry as a profit-making business. Students will learn basic business concepts such as marketing, economics, and promotion as they relate specifically to the business of music.

The Business of Music is available to all students and is highly recommended, especially to those who would like to pursue a career in business or music.

This course fulfills 1/2 credit toward the art/music elective graduation requirement.

## 7180 COOPERATIVE WORK EXPERIENCE (CO-OP)

(Units of Credit Varies - Meets Every Day for Full Year) (Factor 8)

A course for Juniors and Seniors

The co-op program provides an opportunity for the student to work in a job setting which reinforces knowledge and skills learned in business or occupationally related courses. There is supervision of work experience by the teacher-coordinator who assists in appropriate job placement in local businesses.

Students will receive one credit for working at least 300 hours in a co-op program. Employment may be paid or volunteer. An additional credit will be earned by taking the required co-op academic course.

Requirements for student participants:

1. Must have working papers and a Social Security Number
2. Must have met or be in the process of meeting academic requirements for graduation
3. Must be employed under current state and federal labor laws and regulations
4. Must have completed or currently be taking co-op academic course
5. Must have own transportation to and from work

The co-op academic course will include, but not be limited to, topics such as human relations, interview techniques, resume writing, job search techniques, work ethics, labor laws, career exploration, and job survival skills.

## 7190 BUSINESS COMPUTER APPLICATIONS/MICROSOFT OFFICE SUITE

(1 Unit - Full Year) (Factor 8)

This course is designed for Juniors and Seniors.

This is a completely integrated business course which will provide the student with the opportunity to acquire concepts and attitudes essential for understanding and working in the field of business. Students will be able to utilize these concepts through hands-on instructional approach. Some of these tools include: word processing, data base management, spreadsheet applications, and graphics. This course is designed to teach students how to use the components of the Microsoft Office Suite, including Word, Excel, PowerPoint, and Internet Explorer.

This course prepares students for the MOUS Certification Test. The test may be taken at Dutchess County Community College with teacher recommendation.

◆ This course does not meet NCAA eligibility standards.

7210 PERSONAL MONEY MANAGEMENT (1/2 Unit – 1 Semester)(Factor 8)

A course for Sophomores, Juniors and Seniors

Personal Money Management is a course designed to educate students in the fundamentals of personal finance. Students will learn about both the opportunities and risks that exist in the world of finance.

Topics include:

- Stocks, Mutual Funds, and other securities
- 401k Plans, Pension Plans, and other retirement funds
- Credit cards, Mortgages, Personal and Auto loans
- Filing and Paying Taxes, Tax Laws
- Investing in Businesses, Real Estate and Stocks

Students will be asked to participate in an online Stock Trading Competition. They will be given a \$1 million dollar account and will be competing against other students in the class. This helps the students to understand both the long-term and short-term trends of stocks and mutual funds.

7231 BUSINESS MANAGEMENT (1 Unit – Full Year) (Factor 8)  
(Formerly known as Business Ownership)

A course for Sophomores, Juniors and Seniors.

Business Management is a full year course designed to provide a step-by-step approach to understanding business operations. The main topics covered are management, entrepreneurial skills, marketing, and financial operations for small businesses.

Each student will choose a business they would like to develop and create a business plan for that business. The business plan will include company description, market and industry analysis, operational, organization, financial, and growth plans.

Business Management will benefit all students who plan to pursue a career in business, students who are applying to work for the first time, and those who think they want to operate their own business.

7260 INTEGRATED COMPUTER SKILLS AND APPLICATIONS

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Keyboarding is recommended, but not required.

This course is designed to teach students how to use the components of the Microsoft Office Suite, including Word; Excel; PowerPoint, Publisher, and Internet Explorer. These software applications will be taught with an emphasis on the coordinated use of the programs to achieve a specific goal. There will be no emphasis on programming.

Students will learn how to locate the primary source materials necessary to write a research paper. Students will then use the information gathered to write and format a comprehensive outline, showcase their findings in a multi-media presentation, analyze their findings, and complete the process by formatting and writing a research report on the topic in question.

The design of the course will stress daily hands-on experience. Students will become aware of the capabilities of an integrated series of software and will learn to function successfully with such a software series.

This course is recommended for all students grades 9 through 12 and can be taken for a grade or on a pass/fail basis. It is strongly recommended that a student take this course early in his/her high school career. This will allow the student to use the knowledge and skills learned in the course throughout their entire academic career.

## TECHNOLOGY EDUCATION

We live in a technology-based information age. Students, while exploring the possibilities of future careers, will not be able to escape the vastness and importance of Technology. Simply put, Technology affects us all.

Technology Education courses can serve **you** whether you are an occasional hobbyist, a serious enthusiast or planning a professional career as an architect, technician, or engineer. Let us help you prepare for **your** future.

A student enrolled in a Technology Education course, or sequence will be encouraged to draw from a number of personal experiences, both in and out of school. It is the goal of the Technology Education Department staff to focus your experiences and merge them with a real-world-applications approach via hands on learning and problem solving.

Any student is welcome to enroll in a Technology course of interest to them provided that all prerequisites for those courses are met.

\*Project Lead The Way® (PLTW) is a Technology Education curriculum that promotes mathematics, engineering and engineering technology courses at the middle school and high school level. PLTW prepares students to be the most innovative and productive leaders in Science, Technology, Engineering, and Mathematics (STEM). Each course provides practical skills and hands-on experience to make students' knowledge count in the real world, and the basis for further study in the sciences, technology, engineering, and mathematics. PLTW develops motivated, well-rounded students by instilling confidence, stressing the importance of self-discovery, encouraging innovative problem solving and critical thinking, teaching team building, and rewarding creativity. Students will develop skills essential for achievement in the classroom and success in college and at work.

- PLTW students achieve significantly higher scores in reading, mathematics, and science.
- PLTW graduates earn higher GPAs as college freshmen.
- PLTW graduates are 5 to 10 times more likely to study engineering and technology.

(Source: [www.pltw.org](http://www.pltw.org))

### **PLTW courses currently offered:**

8060 Introduction to Engineering Design – IED/DDP

8062 Principles of Engineering – POE

8010 Digital Electronics – DE

Details of each class can be found on the following pages.

Note: Students can receive a technology elective, science and art credit as well as college credits for *some* PLTW courses. These courses are factor 9.

## **Technology Credit Substitutions for Art, Science and Language**

Introduction to Engineering Design – IED/DDP, Engineering Drawing and Design/CAD, The World of Architecture/Structural, Photography, Film Technology and Jewelry may be used to fulfill the New York State Art/Music graduation requirement. Credit toward the third year of Science may be earned by completing any 2 of the following Technology Education courses: Electricity, Digital Electronics, Transportation Systems, Materials Processing, or Photography.

Any Technology Education course taken on a Pass/Fail basis may **NOT** be used for a Technology sequence. Principles of Engineering may **NOT** be taken on a Pass/Fail basis.

For the Advanced Regents Diploma, a student may substitute a 5 unit sequence in Technology Education for the 3 unit Foreign Language requirement.

### **TECHNOLOGY EDUCATION SEQUENCE 5 Unit Sequence**

<b>CAREER AND FINANCIAL MANAGEMENT</b>	<i>1/2 UNIT</i>
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<b>SYSTEMS COURSES</b>	<i>TAKE 1 OF THESE FOR 1/2 UNIT</i>
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COMMUNICATIONS SYSTEMS - (Course 8000)  
PRODUCTION SYSTEMS - WOOD (Course 8010)  
PRODUCTION SYSTEMS - METAL (Course 8020)  
TRANSPORTATION SYSTEMS - (Course 8030)  
CONSTRUCTION – (Course 8100)

<b>FOUNDATION COURSES</b>	<i>1 UNIT</i>
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*Take both of these for 1 unit:*  
MATERIAL PROCESSING – (Course 8040)  
ELECTRICITY – (Course 8050)

*OR*

INTRODUCTION TO ENGINEERING DESIGN – IED/DDP – (Course 8060)

<b>ELECTIVES</b>	<b>3 UNITS</b>
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*TAKE ANY OF THE ELECTIVES LISTED ON THE FOLLOWING PAGES, OR  
ANY OTHER OF THE SYSTEMS COURSES ON THIS PAGE FOR 3 UNITS.*

**TOTAL OF 5 UNITS**

## Systems Courses

Take **one** of the following for the Technology Education Sequence requirement for Systems Courses:

### 8000 COMMUNICATION SYSTEMS (1/2 Unit - 1 Semester) (Factor 8)

Communication Systems offers students an exciting opportunity to explore the world of communication. Students will learn a variety of skills such as basic communication skills and problem solving, sketching, digital photography, graphic arts, desktop publishing and electronic communications. Students will even explore possible career choices. Communication Systems will give students the knowledge about the various communication technologies you can apply to their everyday lives.

### 8010 PRODUCTION SYSTEMS – WOOD (1/2 Unit - 1 Semester) (Factor 8)

In this class students will learn how products are made in the industry of wood. Students will become involved in the making of individual items and then participate in the making of actual useful products, in the production industry, that are used every day in real life. This course also includes experiences in construction involving residential and commercial products. Through activities in manufacturing and construction, useful experience is gained in the proper use of many tools and power equipment with emphasis on safety and the economy with a consideration for minimal environmental disruption.

#### Possible Projects/Areas Explored:

Candle Sconces	Wall Shelves
Clocks	Custom Picture Frames
Box Building	Baseball Bats
Furniture & Cabinet Projects	Individual Projects of Student Choice

### 8020 PRODUCTION SYSTEMS – METAL (1/2 Unit - 1 Semester) (Factor 8)

In this class, students will learn how industries of today produce everyday items from different types of metal. Students will become involved in the making of several items from raw stock. All projects are designed to keep and take home. The different types of metal production skills that will be emphasized are sheet metal fabrication, basic machining and welding. These are skills that are used in local industries today. We will cover a broad range of hand and power equipment use related to the different metal processes. Safety, organization of time and labor with minimum disruption to the environment is stressed.

#### Possible Projects/Areas Explored:

Toolbox – (sheet metal)	Funnel – (sheet metal)
Small hammer – (machining)	Screwdriver – (machining)
Step stool – (welding)	

8030 TRANSPORTATION SYSTEMS (1/2 Unit - 1 Semester) (Factor 8)

Can you imagine what life would be like without transportation? There would be no way to move people and products from place to place. In this course, you will experience an overview of aerospace, marine and land transportation using the systems model of technology.

Students will spend approximately half the course learning the fundamental operations of the internal combustion engine and experience actual disassembly, inspection, reconditioning, assembly and testing of their own small engine. The remainder of this semester course will cover the various types of transportation and operations of land, air and marine vessels in use today.

Many students successfully completing this course will choose to enroll in Land Transportation, Course 8090.

This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

8100 CONSTRUCTION (1/2 Unit - 1 Semester) (Factor 8)

Students will be provided with an opportunity to become familiar with basic modern building methods and materials. The course will deal with typical house construction, from specifications through building an actual structure. This will reinforce planning theory, problem solving and math as well as provide new knowledge and a wide variety of skills. These skills, such as blueprint reading, estimating costs, framing procedures, etc. are needed by most homeowners to repair and maintain their homes.

Possible Projects/Areas Explored:

- Full size sheds of all description
- School & community projects

## Foundation Courses

Take **both** 8040 and 8050 **OR** 8060 (Intro. to Engineering Design – IED/DDP) to meet the Technology Education Sequence requirement for Foundation Courses.

### 8040 MATERIALS PROCESSING (1/2 Unit - 1 Semester) (Factor 8)

This is a good entry level course recommended for every student interested in manufacturing / technology. Students will learn how to work with a variety of materials such as wood, metal and plastic. We will study how materials, both synthetic and natural, are made and how they can be used. Machining, casting, forging and fastening are some of the techniques investigated. All of the projects are designed for the students to keep.

This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

### 8050 ELECTRICITY (1/2 Unit - 1 Semester) (Factor 8)

This is the course for you if you have ever been in the dark and you don't know how to repair the light, the switch or the actual electricity in your house. This is an introductory level, hands-on, course in electricity. Basic electrical theory is covered using residential wiring as the major emphasis. The student will also learn DC motor theory by designing, building and testing a working model. DC currents are introduced.

#### Overall the students will learn:

How to wire a residence,

How to work with electric circuits

How to design a workable wiring plan and what are the National Wiring Guidelines.

This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

## PLTW Foundation Courses

### 8060 INTRO TO ENGINEERING DESIGN- IED/DDP

(1 Unit – Full Year)

(Factor 9)

#### PROJECT LEAD THE WAY® COURSE\*

This introductory design course is the first high school course in a series of Project Lead the Way® pre-engineering courses designed to introduce the student to the field of engineering. The major focus of this course is to expose students to the design process, engineering standards, research and analysis, technical documentation, global and human impacts, communication methods, technical documentation and teamwork. Students use 3D CAD solid modeling software to help them design solutions and solve problems and will learn how to document their work and communicate solutions.

**This course is a must for students wishing to study engineering, architecture or any of the building and construction trades as well as careers in design.**

Accuracy, neatness and precise measurements are necessary to complete every assignment.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation. In addition, college credit can be earned with completion of the course and a supplemental exam in June. (See your guidance counselor or a technology teacher for more information.)

### 8062 PRINCIPLES OF ENGINEERING

(1 Unit - Full Year)

(Factor 9)

#### PROJECT LEAD THE WAY® COURSE\*

Prerequisite: Open to Sophomores, Juniors and Seniors Only

Recommended: Introduction to Engineering Design – IED/DDP – Course 8060  
Engineering Drawing and Design/CAD – Course 8120

This course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

**This course is a must for students wishing to study engineering, architecture or any of the building and construction trades as well as careers in design.**

Accuracy, neatness and precise measurements are necessary to complete every assignment.

## Technology Education Sequence Electives

Take 2 one semester or one full year course from these electives to meet Technology Education Sequence requirement.

8110 DIGITAL ELECTRONICS (1 Unit – Full Year) (Factor 9)  
PROJECT LEAD THE WAY® COURSE\*

Prerequisite: Open to Sophomores, Juniors and Seniors Only

Digital Electronics (DE) is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the DE course is to expose students to the process of applied digital logic design, teamwork, communication methods, engineering standards and technical documentation. This course explores the smart circuits found in watches, calculators, video games and computers. Students use computer software to test and analyze digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs. Students use mathematics and science to solve real-world engineering problems.

This course may be used to satisfy 1 unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

8090 LAND TRANSPORTATION/POWER (1 Unit - Full Year) (Factor 8)

Prerequisite: Transportation Systems – Course 8030

Have you ever wondered how the car you are driving actually works and why? If you have then this class is the perfect class for you. This course is designed to give the students the opportunity to learn the basic skills needed to work on today's complex automobiles.

Possible Projects/Areas Explored:

Bio-Diesel	Waste/Vegetable Oil
Electric Cars & Hybrid Cars	Demo Derby Cars
Restoration & Sand Blasting	Lift Kits

Overall the students will learn:

Operation of modern internal combustion engines, electric engine controls, chassis maintenance, automotive cooling systems, performance technology and vehicle maintenance

The aim of the course is not to develop fully trained automotive technicians but to develop interest in the field that produce future technologically and environmentally alert cars for the consumers.

8120 ENGINEERING DRAWING AND DESIGN/CAD (1 Unit - Full Year) (Factor 9)

Prerequisite: Introduction to Engineering Design – IED/DDP – Course 8060

Engineering as a graphic language is the focus of this course. This is a one unit course that explores components, applications, design functions and career opportunities within various engineering and design areas. We will cover the latest developments and current practices of many areas of graphic communications, CAD, functional design and drawing, material representation, shop processes, geometric construction and understanding industry standards. The areas of mechanical, architectural and structural, electrical and civil engineering will be covered.

CAD systems will be used to generate hard copy. Emphasis is placed on the use of computer technology and the understanding of the changing role of CAD and its effects on the design and manufacturing process. Students, working in teams, will follow the design process to create accurate and complete drawings and hand build scale models and mock-ups of their designs.

**This course is a MUST for students considering further study in the areas of engineering, architecture, the building trades or any field of design.**

8131 THE WORLD OF ARCHITECTURE/STRUCTURAL

(1 Unit - Full Year) (Factor 9)

Prerequisite: Open to Juniors and Seniors Only OR  
Permission of Dept. Coordinator

The “American Dream” is to own your own home, but have you ever really thought about how and why this house becomes a home? What does it take to design and build this dream home? This class will answer these questions and more.

This study of architecture encompasses sensitivity to design, skill in drawing techniques and knowledge of the latest construction materials. Residential drafting and design studied in this class provides the basic information necessary for planning various types of dwellings. It also presents basic instruction in preparing architectural working drawings using traditional as well as computer-based methods. It is a blending of the technical and the creative side of architecture.

Each student will produce a complete set of working drawings and scale model of his/her design. Students are encouraged to enter and compete in annual college level architecture contests. (See instructor for details.)

This course would be of interest for students wishing to study engineering, architecture or any of the building and construction trades. It would also be a course taken by students interested in landscape design, interior design and/or any future careers involving the concepts of design as well as sustainable green ecologically sound building.

8141 APPLIED ENGINEERING TECHNOLOGY (1 Unit – Full Year) (Factor 9)  
(Previously known as Principles of Eng. – POE)

Prerequisite: Open to Seniors only. Juniors admitted if space is available with Permission of Dept. Coordinator

Recommended: Engineering Drawing and Design/CAD – Course 8120

Applied Engineering Technology is a rigorous and challenging program which combines sophisticated theory with hands-on practical experience. Class will be taught with team projects, as well as individual activities designed to give students the opportunity to apply basic engineering principles and technical skills to solve complex technological problems.

The program includes instruction in fundamentals of engineering such as electronics, mechanical systems, CAD, materials, quality control, safety, sustainability and general management principles.

By the end of the course, students will: (a) Develop critical thinking and quantitative skills; (b) Develop the necessary skill set to solve complex technological problems and (c) Apply technical problem solving skills, including the ability to identify problems through proper analysis and hands-on troubleshooting.

Possible Projects/Areas Explored:

Punkin' Chunkin' Competition  
Chainsaw Dragster  
“Green” Building

8151 PHOTO TECHNOLOGY 1 (1/2 Unit - 1 Semester) (Factor 8)

Photo Technology is a beginning photography course. Students will learn how to use 35mm Single Lens Reflex (SLR) cameras effectively and develop black and white film using the dark room and chemicals. Students will learn to effectively compose their photos through various photography techniques. Students may use their own cameras or use those of the school for course work.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation. **AND** This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

8161 PHOTO TECHNOLOGY 2

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Photo Technology 1 - Course 8151 or  
Studio in Photography – Course 6210 OR  
Permission of Dept. Coordinator

Photo Technology 2 affords the student the opportunity to further refine and extend the skills of black and white photography. This class will push the student towards working on greater challenges both technically and aesthetically. Students will be able to work with more advanced black and white techniques, color prints and negatives as well as some introduction into digital photography.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation. **AND** This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

8170 DIGITAL PHOTO TECHNOLOGY

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: Photo Technology 1 – Course 8151 or  
Studio in Photography – Course 6210 OR  
Permission of Dept. Coordinator

Recommendation: Photo Technology 2 – Course 8161

Once students have studied the basic concepts of photography in Photo Tech 1 they may continue their pursuit of photography with Digital Photo. The course will continue the concepts of photo technology with the digital format. **Students should have access to a digital camera to take this course.**

This course is a hands-on introduction to digital photography. Students will acquire experience in the use of digital cameras, computers, scanners and color printers, and the image processing software **Adobe Photoshop** to produce digitally enhanced photographs. The technical and aesthetic possibilities of digital photography will be examined through a series of sequential assignments. Images and ideas will be developed through a combination of lectures, demonstrations, supervised class work, shooting assignments and critiques. Some projects the student may work on are photo essays, architectural studies, self-portraits and photo collages. It is expected that students will spend additional time outside of class completing course assignments.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation. **AND** This course may be used to satisfy ½ unit of credit of the required two credits in Science (see Technology Credit Substitutions for Art, Science and Language section).

8181 AUDIO RECORDING & PRODUCTIONS (1/2 Unit - 1 Semester)(Factor 8)

Prerequisite: Communication Systems - Course 8000

An audio recording program gives students the technical and artistic skills necessary to record live and studio performances. The program involves both classroom and studio work, and may offer students the chance to work with professional and student musicians during their studies. Students will learn fundamental principles of sound and broadcasting related to radio. Studio production will develop a student's ability to interact with various recording equipment. Students will create, write, produce and engineer student work.

8190 VIDEO PRODUCTIONS (1/2 Unit - 1 Semester) (Factor 8)

Prerequisite: Communication Systems - Course 8000

In Video Production students will learn about the three main stages of video; pre-production, production and post-production. Students will explore various recording formats, camera uses and parts and care, camera shots and film techniques. Students will enjoy these creative yet challenging hands-on projects.

Video Production does not require ownership of a video camera, however, having access to one for usage is extremely helpful.

8195 TELEVISION PRODUCTIONS (1 Unit – Full Year) (Factor 8)

Prerequisite: Communication Systems – Course 8000

Television Productions introduces students to the basic skills they need to enter the television production industry. This course provides an overview of the equipment, job responsibilities, and techniques involved in both traditional studio production and remote location work. It clearly presents the activities and processes involved in each phase of production.

Projects created in Television Productions will be used on the morning news show of the Arlington Broadcast Channel (ABC) as well as our web page. They include but not limited to PSAs, commercials, promotional spots and informative news casting. Television Productions is designed as a full year course with strong “hands-on” production experience.

Upon completion of this course, students can be considered for a crew membership of our ABC television station.

8200 FILM TECHNOLOGY

(1/2 Unit – 1 Semester)

(Factor 8)

Prerequisite: Video Productions – Course 8190

This class will take a look at the technological history of film making, from the late 1870's up to today. We will discuss the early inventions and how technology has brought us into the 21<sup>st</sup> century. It will also give students a hands-on opportunity to work through the technical challenges of filmmaking.

Through the screening of such films as *Metropolis*, *The Matrix* and others, we will analyze and discuss the technology needed for how the directing techniques and special effects are achieved. Students will be required to complete various activities which would familiarize them with the various film equipment, film language, storyboarding, and film critiques. Types of hands-on projects may include shooting movie scenes and making a film short. Students should possess a willingness to work hard and cultivate creative ideas and thoughts.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation.

8210 CREATIVITY IN FURNITURE & CABINET MAKING

(1 Unit - Full Year)

(Factor 8)

Prerequisite: Production Systems - Wood – Course 8010 OR  
Permission of Dept. Coordinator

An advanced woodworking course structured to fulfill the needs and desires of those students who want to go beyond the fundamentals of woodworking. This is the course to build that grandfather clock, roll top desk, chest on chest, china hutch, entertainment center or whatever project that will fulfill your needs and goals in the area of woodworking. In this exciting area you will use a large variety of hand and machine tools to create your valuable heirloom. Emphasis will be placed on good design, use of fine hardwoods, advanced joinery, finishing techniques and an appreciation of excellent craftsmanship. Here's your chance to develop your special skills, gain confidence in your abilities and enjoy woodworking as a valuable asset in your life.

## 8220 JEWELRY

(1/2 Unit - 1 Semester)

(Factor 8)

Jewelry making is one of man's oldest technologies. By blending technology and design, every culture throughout history has decorated itself in some fashion. Arlington students will be introduced to a wide range of jewelry concepts, techniques, and skills using a variety of metals such as copper, brass, nickel silver and sterling silver.

### Possible Projects/Areas Explored

Creating earrings	Pendants & necklaces
Bracelets	Rings

### Overall the students will learn:

Wire wrapping with beads	Woven wire	Pierced metal
Silver soldering	Sheet metal forming	Lost wax casting

Some projects may also incorporate acrylic, cloth fibers, exotic woods, natural and "found" objects, and more. Interested students may ask about independent study after completing this class.

This course may be used to satisfy ½ unit of credit of the required one credit in Art/Music required for graduation.

## 8230 CONSUMER AUTOMOTIVES

(1/2 Unit - 1 Semester)

(Factor 8)

What do you need to be aware of for car ownership? This course will discuss the different consumer issues that involve automotive ownership starting with how to research and purchase a car. There will be discussions of insurance needs, warranties offered, important safety information and other areas of concern. Students will understand what to look for on third-party vehicle information sites such as Edmunds, Kelly Blue Book, NADA guides, etc.

Emphasis will be on basic car technology so students will know how to discuss problems with a mechanic. They will also learn about fuel economy and any other new automotive options being offered. The course will also help students understand maintenance schedules, recalls and a car's owner manual to name a few.

***PLEASE NOTE THAT THE FOLLOWING COURSE IS REQUIRED FOR ALL OCCUPATIONAL EDUCATION SEQUENCES.***

## 8240 CAREER AND FINANCIAL MANAGEMENT-A

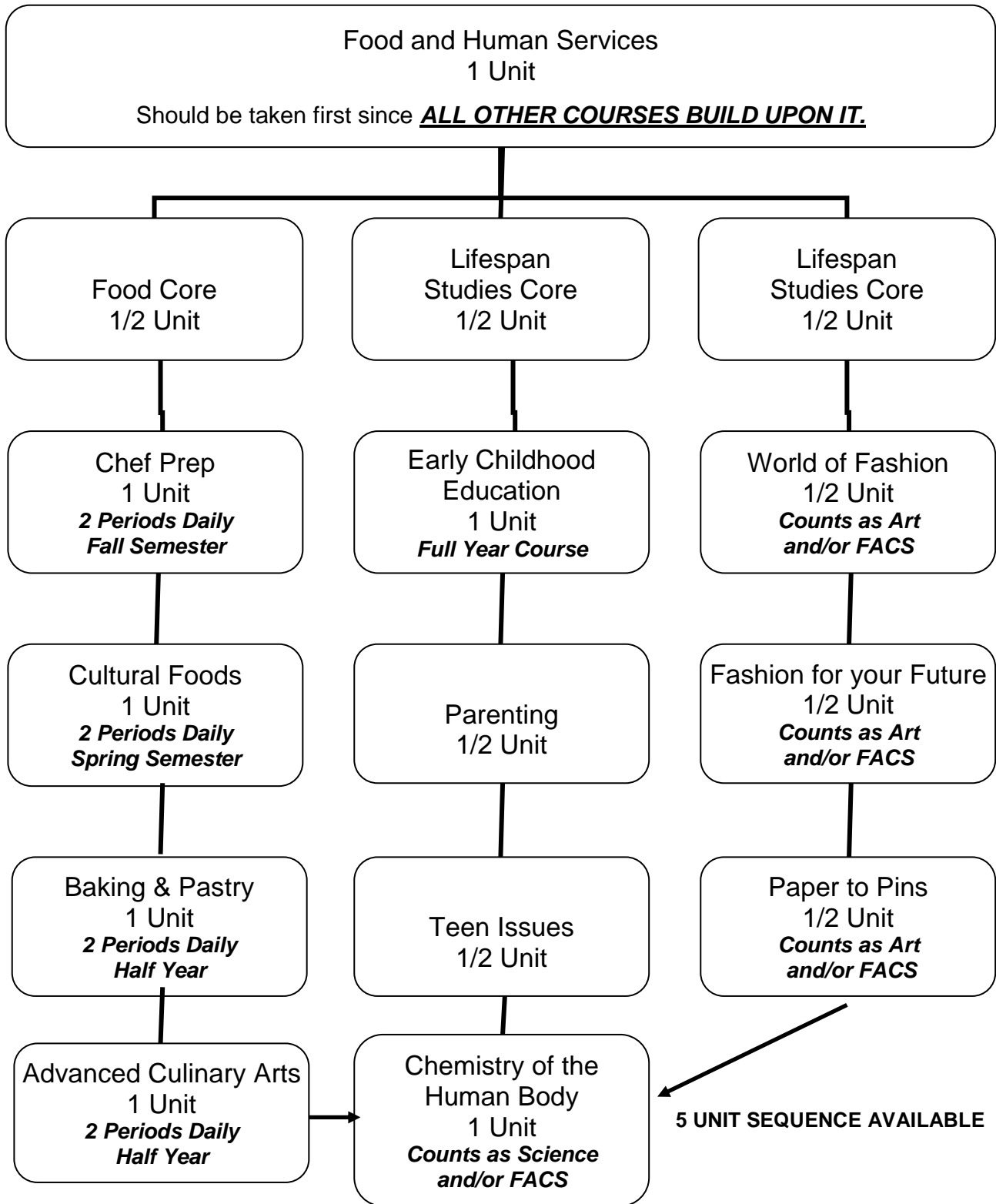
(1/2 Unit - 1 Semester)

(Factor 8)

This course is *required* for all students enrolled in a Technology sequence as well as Occupational Education sequences.

A series of two modules: Personal Resource Management and Career/Working Citizen. These modules include performance objectives designed to develop competencies which are critical or highly desirable to all students. This course will fulfill the two modules required for all occupational education students.

**FAMILY & CONSUMER SCIENCE**



The Family & Consumer Science Department offers a wide variety of career and technical education classes. The courses include topics in food preparation, fashion design, parenting and human development. All courses may be selected either as individual electives or in specific sequences. The following Family & Consumer Science courses may also be used to satisfy:

Art Requirement

8640	World of Fashion	1/2 Unit
8650	Fashion for Your Future	1/2 Unit
8660	Paper to Pins	1/2 Unit

Science Requirement (fulfills second year requirement)

8590	Chemistry/Human Body	1 Unit
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*It is important to note that every Family & Consumer Science major must take FOOD AND HUMAN SERVICES in order to satisfy the state mandate for Occupational Education requirements.*

The 5 unit Family & Consumer Science sequence may be substituted for the 3 unit language requirement necessary for an Advanced Regents diploma.

Any Family & Consumer Science course which is taken on a Pass/Fail basis may NOT be used as a unit for the Family & Consumer Science sequence.

Description of courses:

8500 FOOD AND HUMAN SERVICES (1 Unit - Full Year) (Factor 8)

The first marking period of this course provides a comprehensive introduction to careers in human services. Topics covered include stages of human development, communication and leadership skills.

The second marking period introduces careers in food services. Focus will be put on safety, sanitation, meal management, nutrition and special diets.

Introduction to Occupations makes up the second half of this course. Students practice career and financial management skills and receive an introduction to finance in order to satisfy the state mandate for Occupational Education.

Related Occupations: Counselor, Social Worker, Psychologist, Cook, Baker, Teacher

CORE COURSES ARE THE FIRST SPECIALIZATION COURSES WITHIN THE FAMILY & CONSUMER SCIENCE CONTINUUM. EACH CORE COURSE PROVIDES BASIC CONTENT. IT IS RECOMMENDED THAT STUDENTS TAKE THE CORE COURSE FIRST IN THE SEQUENCE THEY ARE PURSUING.

8520 FOOD CORE (1/2 Unit - 1 Semester) (Factor 8)

This course is a prerequisite for all of the advanced Culinary Arts classes.

This course gives students the opportunity to learn about the culinary world. Students learn about and create foods from different areas, such as breads and grains, eggs, cheeses, vegetables, fruits, meats, and baking. Students are given hands on cooking labs in which they work with a kitchen group to create food items corresponding to the given unit of study.

Related Occupations: Baker, Butcher, Fast Food Worker, Dietitian

8530 LIFESPAN STUDIES CORE

(1/2 Unit - 1 Semester)

(Factor 8)

Lifespan Studies Core is the study of human development from prenatal growth through the elder years. All four types of development will be explored: physical, mental, social, and emotional. Students will observe a nursery school, use role playing, and develop class presentations. This course includes an assortment of group activities. Attendance is extremely important. Careers in lifespan studies will also be explored.

Related Occupations: Social Worker, Counselor, Psychologist, Therapist

8560 CHEF PREP

(1 Unit - 2 Periods Daily - Fall Semester)(Factor 8)

A course for sophomores, juniors and seniors

Prerequisite: Food Core or Department approval

**Students enrolling in this course should have already completed Food Core or have a firm understanding of basic cooking techniques. Also, students enrolling in this course should be passionate about food, have an interest in possibly attending a culinary school and/or pursuing a careers in the food service industry.**

Students are expected to be proficient in basic math skills, proper cooking techniques, use of commercial kitchen equipment and efficient time management. Proper culinary knife skills will be stressed with an emphasis on sanitation and food safety. Pastries, sauces, soups, quick breads, pies, yeast breads, vegetables, cookies, salads, sandwiches, and cheeses are a few of the foods that students will prepare.

This is a production class. Therefore, students will prepare quantity foods for various functions in the school like the outstanding Admiral luncheons. The *Admiral Café* at Open House is a favorite of this course. College essays will be written, followed by field trips to various culinary schools. Field Trips taken in the past include a day trip to *The Culinary Institute of America*, in Hyde Park, NY and to *Johnson & Wales University* in Providence, Rhode Island. Students are required to have a chef coat for class, and this coat can be used in the other advanced culinary classes if the student takes those as well.

**Grades in this class are predominantly performance based, so attendance is crucial.**

Related Occupations: Chef, Pastry Chef, Catering, Cake Decorator, Food Stylist

8570 CULTURAL FOOD (1 Unit - 2 Periods Daily - Spring Semester)(Factor 8)

A course for sophomores, juniors and seniors

Prerequisite: Food Core or Department approval

**Students enrolling in this course should have already completed Food Core and/or Chef Prep.**

In this course students will explore a variety of culture specific foods and preparation techniques. They will gain an understanding of cultural differences and interdependence of regions and countries around the world. They will be given the opportunity to learn different ethnic techniques and prepare these foods and evaluate them each week with a different ethnic meal.

A field trip to Chinatown and Little Italy (NYC), to observe the different cultures and sample ethnic cuisine, will be included in this course. Students are required to have a chef coat for class, and this coat can be used in the other advanced culinary classes if the student takes those as well.

**Grades in this class are predominantly performance based, so attendance is crucial.**

Related Occupations: Chef, Food Service Manager, Food Editor, Hospital Food Service

8580 BAKING & PASTRY (1 Unit – 2 Periods Daily – Fall & Spring Semester)  
(Factor 8)

A course for juniors and seniors.

Prerequisite: Food Core or Department approval

**Students enrolling in this course should have already completed Chef Prep or Cultural Foods.**

In this course students will explore a variety of baking topics including:  
Quickbreads--muffins, biscuits, scones, and loaf quickbread  
Yeast bread--yeast loaf rolls, raised rolls, fermentation and gluten  
Pastry--custard, fruit filled, cream filled, and double crust pies  
Cakes--filled, shortened, and high ratio cakes, decorations and pan preparation  
Cookies--types of cookies, preparation, equipment used, consistency, and ingredients  
Milk based foods--pudding and custard  
Foam based--egg foam, meringue, and folding  
Specialty desserts--torte, tart, ice cream, and sorbet

Students are required to have a chef coat for class, and this coat can be used in the other advanced culinary classes if the student takes those as well.

**Grades in this class are predominately performance based so attendance is crucial.**

## 8585 ADVANCED CULINARY ARTS

(1 Unit – 2 Periods Daily – Fall & Spring Semester) (Factor 8)

Prerequisite: Chef Prep, Cultural Foods or Baking & Pastry

A course for juniors and seniors

**Students enrolling in this course must be interested in attending a culinary school and pursuing a career in the food service industry.**

This is a food production and table service course. Students will be responsible for both the Back of the House (cooking) and Front of the House (serving) operations of the Admiral Café. In addition to preparing all of the food that is served, students will learn about the basic types of menus and use this knowledge to create their own menus for the café. Culinary Math will be introduced and used to determine the selling prices of the items on their menus. Students will also learn the various types of table service and utilize these with the serving of their menus to actual customers. Students are required to have a chef coat for class, and this coat can be used in the other advanced culinary classes if the student takes those as well.

**Successful completion of this course will help students in obtaining the required restaurant experience and an opportunity for credit in Culinary Math for the Culinary Institute of America.**

**Grades in this class are performance based, so attendance is crucial.**

Related Occupations: Chef, Executive Chef, Restaurant Owner, Manager.

## 8590 CHEMISTRY/HUMAN BODY

(1 Unit - Full Year)

(Factor 8)

(1 Unit Science Requirement)

**Students who wish to complete a three-year sequence in science can use this science course.**

The first semester of this course introduces the workings of the human body systems and food related illnesses. The focus is on the digestive system and other body systems that are affected by diet and nutrition. The food related illness unit includes food safety, eating disorders, obesity and diabetes. There is a research project related to lesser known food related illnesses.

The second semester of this course explores topics of food chemistry. Topics include the scientific evaluation of food and basic chemistry. The scientific process will be applied to topics which will include water, proteins and dairy products. There is a lab component to this course during the second semester.

Related Occupations: Food Technologist, Food Designer, Food Chemist

8595 SPORTS AND NUTRITION

(1/2 Unit – 1 Semester)

(Factor 8)

Recommendation: Food and Human Services or Food Core

This course will focus on the nutritional aspects which come along with being an athlete or highly active individual. Students will have the opportunity to learn how the athlete's body and nutritional needs may differ from that of other students their age. Some of the topics covered could include nutrients and their function in the body, MyPlate.gov, energy, body composition, diets including pre and post competition, hydration and supplements for an athlete. This course will explain how energy is produced and used in the body, the importance of fluids in the diet, nutrients and performance, training diet versus competition diet.

8600 EARLY CHILDHOOD EDUCATION (1 Unit - Full Year)

(Factor 8)

10th, 11th & 12th graders only

"The Children are our Future." With this quote in mind the students study the development of children two to five years old and incorporate their learning into a three month long nursery school. This class is very much an experiential class. Oral presentations are a must since the students are teachers. Students learn how children learn, the difference between discipline and punishment, ways to foster self respect and confidence in our little ones. This is a great class for anyone who is entering into early childhood education or elementary education.

**Grades in this class are predominantly performance based, so attendance is crucial.**

Related Occupations: Social Worker, Counselor, Psychologist, Therapist

8630 PARENTING

(1/2 Unit - 1 Semester)

(Factor 8)

The majority of people in our society today become parents. It is quite possible that this will be the most challenging work you will ever have to face in your lifetime... and yet most people go into this very important job with no training. This course intends to change that. A few of the areas covered are: the vast number of choices individuals must make in relation to parenting, effective techniques for the guidance and discipline of children, the importance of the development of self control, and ways to enhance our children's self esteem. At all times emphasis will be placed upon the importance of both mother and father knowing the skills needed to be a good parent. Taking home **THE BABY THINK IT OVER** doll will be a weekend experience for everyone.

Related Occupations: Social Worker, Counselor, Psychologist, Therapist

8640 WORLD OF FASHION

(1/2 Unit - Spring Semester) (Factor 8)

Are you a fashion addict? Do you like putting together your outfit in the morning? If your answer to any of these questions is yes, this class is for you!

This introductory fashion course is for students who are interested in art and design. Topics covered include fashion styles, design principles, color schemes, costume history, top fashion designers and fabric characteristics. Students enrolled in this course will utilize these topics in the completion of a variety of hands on projects. For one of these projects, students will research a time period in fashion history and develop a lesson to present to the class. The focus of this course is on human figure and original outfit drawing.

Students will be required to purchase some of their own supplies. Estimated cost: \$10.

Related Occupations: Model, Fashion Designer, Retailer, Costume Designer, Fashion Editor

8650 FASHION FOR YOUR FUTURE

(1/2 Unit - 1 Semester)

(Factor 8)

A career in the fashion industry can be very exciting. In this course, students explore careers such as modeling, fashion design, retailing, buying, and being an entrepreneur.

Students will participate in several group projects during the semester. The largest of the projects is the entrepreneur project during which groups of students design, market, and sell a product to the school community. Part of the profits help raise money for charity.

The class will have the opportunity to meet local retailers, and to tour the Coach Outlet store at Woodbury Commons.

Students develop a model floor plan of a store that fits their personality in the diorama competition.

The hands-on nature of this course makes prompt daily attendance mandatory for a passing grade.

Related Occupations: Fashion Designer, Fashion Buyer, Fashion Photographer, Retail Manager

8660 PAPER TO PINS

(1/2 Unit - 1 Semester)

(Factor 8)

Prerequisite: World of Fashion and Fashion for Your Future

Paper to Pins is a course designed for the fashion-minded person who is looking for a career or further education in the field. This course builds on the information learned in both *World of Fashion* and *Fashion for Your Future*.

Students enrolled in this course will have the chance to review and practice the croquis in order to make more accurate representations of clothing. Students will also learn how to work with and alter existing patterns through the use of 1/4 scale models. Construction techniques will be applied through the use of hand sewing. Draping techniques and properties of fabrics will also be a focus.

Students will apply the knowledge learned in class in the form of a final project. For this project, each student must create and present a professional board that includes sketches of his or her clothing line, a pattern made from his or her sketch, fabric swatches, and a sewn mini-version of one of the outfits.

Much of the work done in this class is hands-on, so daily attendance is mandatory. Some supplies will be required for this course. If you want to create your own prom gown, this course is perfect for you.

Related occupations: Pattern drafter, Fashion designer

8670 TEEN ISSUES

(1/2 Unit - 1 Semester)

(Factor 8)

Teenagers often have difficulty dealing with many changes that occur in their lives. Adjusting to the demands of a high school schedule, peer pressure, stressful situations at home, time management and a changing body is often overwhelming. This course is designed to help students explore all those frustrating situations and discover ways to effectively cope with them.

Related Occupations: Social Worker, Guidance Counselor, Psychologist,  
Therapist

## HEALTH EDUCATION

8700 HEALTH

(1/2 Unit - 1 Semester)

(Factor 8)

This course is open only to students in Grades 10, 11, and 12. It is a required course for a high school diploma.

The goal of Health Education curriculum at Arlington High School is to help students explore, personalize, and adopt healthy behaviors. Students will learn, practice, and apply skills that will assist them in making choices necessary to lead an active and healthy lifestyle. Students will acquire skills in the following domains; self management, planning and goal setting, stress management, relationship management, decision making, communication, and advocacy.

Health Education is a student-centered course designed to enhance overall wellness. Students will acquire functional knowledge pertinent to physical activity, nutrition, HIV/AIDS, sexual risk, tobacco, alcohol and other drugs, family life/sexual health, unintentional injury violence prevention, and other required health areas. This is accomplished by following the NYS Health Education Learning Standards and the New York State Guidance Document for Health Education.

Health is a mandated course needed for general graduation from high school.

# PHYSICAL EDUCATION

## COURSE REQUIREMENTS

New York State Education Law requires that all students participate in Physical Education, for which they receive credit each year. Physical Education credit is a requirement for graduation. Physical Education classes are semester classes that emphasize participation and preparing students to live healthy active lives. Additional information is available in the Student Handbook. All students are required to take Physical Education in grades 9 - 12, and will receive 1/4 credit per semester upon successful completion of the course. Doubling in Physical Education is *permitted only* for students in Grade 12.

If there are medical reasons why you cannot participate in a full program, a modified program will be provided. To be eligible for the modified program your physician must fill out the school form, which will inform the Physical Education teacher which activities you may safely participate in. The form may be obtained from the school nurse.

### **Course Content:**

Application of Skills	Application of Rules and Conventions
Application of Strategies	Sportsmanship
Personal performance in games/activities	Personal/Social Responsibility and Safety

The *Methods of Assessment* illustrate the various techniques that may be implemented and utilized by the AHS PE staff.

### **Methods of Assessment:**

Individual Performance/Skill Rubric	Written Tests and/or Quizzes
Authentic Assessment in Group & Team Games	Fitness Testing and PE Survey
Critical Literacy Assignments	Peer and self assessments

## **PHYSICAL EDUCATION COURSE TITLES**

8798 9<sup>th</sup> Grade Physical Education  
8799 10<sup>th</sup> Grade Physical Education  
8881 Physical Education First Semester (grades 11-12)  
8891 Physical Education Second Semester (grades 11-12)  
8790 Independent Study (grades 11-12)  
8791 Independent Study Dance First Semester  
8792 Independent Study Dance Second Semester  
8800 Physical Education Intern  
8910 Introduction to Athletic Training  
8920 Advanced Athletic Training

## PHYSICAL EDUCATION COURSE DESCRIPTIONS

### 8798 9<sup>TH</sup> GRADE PE

(1/4 Unit – Each Semester)

9<sup>th</sup> grade Physical Education is a full year course from September to June with multiple 5 week units. The units of emphasis include dance and aesthetic activities, fitness activities, personal performance, team passing sports/activities, and net/wall sports/ activities. Throughout the course of the year, students will participate in a variety of activities that promote teamwork, cooperation, enhance personal performance, fitness and wellness concepts. Students will be assessed on their participation, behavior, knowledge, strategy, and skill application. Students will become aware of their own comprehensive fitness needs and able to develop an appropriate plan that addresses all fitness components. Emphasis is placed on students developing personal and social responsibility for the positive and safe experience of others. The importance of physical activity and the acquisition of motor skills for a healthy life-style will be emphasized in each unit.

### 8799 10<sup>th</sup> GRADE PE

(1/4 Unit – Each Semester)

10<sup>th</sup> grade Physical Education is a full year course from September to June with multiple 5 week units. The units of emphasis include lifetime activities, team passing sports, net/wall sports, fitness activities, and striking and fielding sports. Throughout the course of the year, students will participate in a variety of activities that promote teamwork, cooperation, enhance personal performance, fitness and wellness concepts. Students will be assessed on their participation, behavior, knowledge, strategy, and skill application. The importance of physical activity will be emphasized in each unit. Students will become more familiar with how to analyze and interpret fitness data from multiple sources and be able to plan fitness programs. For example, students will be expected to plan programs that are appropriate for maintaining or improving cardio-respiratory fitness, muscle strength and endurance, flexibility, and body composition for people of various ages, genders, and health and fitness levels.

### 8881 11<sup>th</sup> & 12<sup>th</sup> GRADE PE

(First Semester, Grades 11-12) (1/4 Credit)

### 8891 11<sup>th</sup> & 12<sup>th</sup> GRADE PE

(Second Semester, Grades 11-12) (1/4 Credit)

Physical Education in grades 11-12 is a semester course from September to June with multiple 5 week units. Units of emphasis include lifetime activities, target sports, team passing sports, net/wall sports, fitness activities, and striking and fielding sports activities. Upon the completion of a unit, students rotate to a new unit every 5 weeks. Throughout the course of the semester, students will participate in a variety of activities that promote teamwork, cooperation, enhance personal performance and fitness and wellness concepts. Students may be assessed on their participation, behavior, knowledge, strategy, and skill application. The rules, regulations, and essential skills for various activities will be applied. Students will be empowered to make choices, meet challenges and develop positive behaviors in fitness/wellness and movement activity for a lifetime. Emphasis is placed on students developing knowledge, fitness and motor skills for a healthy life-style. Students need to show their ability to play strategically and/or make appropriate activity decisions, to participate safely in accordance with the most important rules and conventions, and to participate so that all involved can have a positive experience.

First Semester:

PE 8881-A: Net Sports, Fitness Activities, Team Passing Activities

PE 8881-B: Striking & Fielding Sports, Team Passing Sports, Net Sports, Fitness

PE 8881-C: Team Passing Sports, Target Sports, Striking/Fielding Sports, Net Sports

PE 8881-D: Striking & Fielding Sports, Net Sports, Fitness Activities

Second Semester:

PE 8891-A: Team Passing Sports, Target Sports, Striking & Fielding Sports, Fitness

PE 8891-B: Fitness Activities, Team Sports, Striking & Fielding Sports

PE 8891-C: Net Sports, Fitness Activities, Team Passing Sports, Striking & Fielding Sports

PE 8891-D: Team Passing Sports, Fitness Activities, Striking & Fielding Sports

TARGET SPORTS	TEAM PASSING SPORTS	DANCE AND AESTHETIC	NET WALL SPORTS	OUTDOOR ACTIVITY	FITNESS ACTIVITY	STRIKING AND FIELDING SPORTS	PERSONAL PERFORMANCE
Archery	Basketball	Line Dance	Badminton	Orienteering	Aerobics	Softball	Wall climbing
Golf	Field Hockey	Square Dance	Pickleball		Cardio Kickboxing	Cricket	
	Flag Football	Modern Dance	Table Tennis		Pilates	Wiffle Ball	
	Lax		Tennis		Step Aerobics		
	Soccer		Volleyball		Tae Bo		
	Team Handball				Weight Training		
	Ultimate						

Course Selection Guidelines

1. Seniors have priority when being assigned to a course.
2. Students may not change course once a choice/assignment has been made.
3. If a student drops a class and is added to another, that student's course assignment will be determined by class numbers. As a result, students may not have a choice in their assigned course.
4. Students will be in their chosen course for a semester.
5. Students with a medical restriction will choose a course and accommodations will be made by the teacher per the school medical restriction form.

By using this course selection system, we expect the following benefits:

1. Students will show improved participation
2. Students will be more enthusiastic about physical education
3. Students will develop better physical and cognitive skills
4. Students will be able to have more input in the selection of their activities.
5. There will be better utilization of the available facilities by the physical education staff

## INDEPENDENT STUDY

An Independent Study program in Physical Education for students in 11th, and 12th grades is available with the approval of the Department Coordinator. The Independent Study program must be educational, not recreational, in nature, and not a paid activity. The student (a) should make application through P. E. staff. (b) must have passed Physical Education in prior years. (c) must be in good academic standing. Independent Study can only be taken *one* semester per year.

## INDEPENDENT STUDY DANCE

### COURSE DESCRIPTIONS:

A Physical Education Independent Study Dance program is available for students in 11<sup>th</sup> and 12<sup>th</sup> grades with the approval of the Department Coordinator. Arlington High School, in collaboration with the Dutchess County BOCES Arts-in-Education CoSER, will encourage students to develop and understand the role of movement skills, timing, rhythm and other important dance concepts.

This semester course will be divided into multiple units providing students with opportunities to learn movement techniques of specific performance dance styles including modern dance, hip hop, world dance and jazz. Up to five classes may be offered with an approved dance instructor during normal school hours. There is no additional cost to enroll in this program.

### COURSE REQUIREMENTS

1. The student must be in grade 11-12 and be on track to pass Physical Education. If the student has failed P.E. in the previous semester, he/she is ineligible to take Independent Study Dance. If students have not meet requirements in previous Independent Study course they may not be eligible to take Independent Study again.
2. The student must attend Independent Study Dance class on the assigned day and period.
3. Independent Study Dance can only be taken *one* semester per year.
4. Students are welcome to stop in the athletic office if they have questions or conflicts regarding the course.

## PHYSICAL EDUCATION INTERN PROGRAM

PE intern candidates must have the permission of the instructor and be approved by either the Physical Education Department Coordinator to participate in the internship.

Description: The program is designed to provide students with an opportunity to acquire the following skills:

- Ability to organize work
- Communications skills
- Leadership skills
- Basic knowledge of Physical Education equipment
- Basic knowledge of Physical Education activities
- Ability to set up Physical Education equipment for class
- Knowledge of Freshman Physical Education curriculum
- Ability to work in a team environment

### Responsibilities:

- Actively participate in and contribute to group activities
- Write weekly reflective journals based on their experience in the Physical Education class
- Assist in the set up of Physical Education equipment for class
- Assist in the collection of equipment at the end of the period
- Assist students with comprehension of Physical Education activities
- Develop a rapport with Physical Education students
- Demonstrate initiative in the education of the Physical Education students
- Dress appropriately for activity

One quarter credit will be awarded for successful completion for each semester. Students have the opportunity to complete a second semester of the Physical Education intern credit if deemed appropriate by Physical Education staff.

### 8910 INTRODUCTION TO ATHLETIC TRAINING (B/D DAYS)

(1/4 Unit - Fall Semester)

Prerequisite: Completion of 1 credit in Phys Ed

This course is an introduction to the profession of Athletic Training; basic theory and methods associated with prevention and management of athletic injuries and illnesses. Includes 10 hours of clinical observation. Strongly recommended for students seeking admission to athletic training program. This course CAN be substituted for the traditional physical education class.

The course objectives are: to develop an appreciation of the athletic training profession; to develop knowledge and understanding of the responsibilities of an athletic trainer; to obtain knowledge in the prevention, evaluation, care of athletic injuries; to obtain knowledge in the general principles of rehabilitation; to develop and understanding of the function, organization and operation of the athletic training room; to obtain the knowledge and skills necessary to provide First Aid and CPR; to develop knowledge of human anatomy and physiology.

Textbooks: Arnheim, Daniel, Principles of Athletic Training.

### 8920 ADVANCED ATHLETIC TRAINING (B/D DAYS)

(1/4 Unit – Spring Semester)

Prerequisite: Introduction to Athletic Training

This course is an investigation into advanced cognitive domain of athletic training. Specific topics in various areas of the body to include further recognition, assessment, management, and treatment of athletic injuries. This course CAN be substituted for the traditional physical education class.

The course objectives are: to develop advanced cognitive, affective and psychomotor skill in athletic training; to enhance knowledge and understanding of the responsibilities of injury recognition; to enhance knowledge in the prevention, evaluation, care of athletic injuries; to obtain knowledge in the advanced principles of rehabilitation; to develop an understanding of an orthopedic assessment and the reason for the various aspects of the assessment; to obtain the skills necessary to provide a comprehensive orthopedic assessment.

## **ARLINGTON VOLUNTEER SERVICE**

The Arlington Volunteer Service program encourages students to use their free time to benefit the school district and the community. Students participate in practical learning and teaching experiences that capitalize on, or help identify their own interests and talents, while providing much needed help for other students, teachers and community organizations.

### **SCHOOL VOLUNTEER SERVICE - (SVS)**

Student volunteering will be with a teacher or staff member within the building. Students volunteer their time before their school day starts, during the school day when they have unassigned period or after their classes are finished. Student responsibilities will be decided by their supervisor but are not be permitted to grade papers, or have any access to personal information regarding other students. Student volunteers will NOT receive credit or hours toward credit.

### **COMMUNITY VOLUNTEER SERVICE - (CVS)**

Student volunteering will be done outside of the school in the community.

150 hours of documented participation = .5 credit

300 hours of documented participation = 1.0 credit

One CVS hour equals one clock hour, 60 minutes, and can accumulate year to year.

It will be the student's responsibility to provide documented hours on letterhead from the placement of service. Letters are to be submitted by June 1<sup>st</sup> of the current school year.

## **MESSAGE TO STUDENTS**

As you go to each class on course selection day, your teachers will advise you regarding the selection of courses for next year. Make a list of your tentative course selections that you would be interested in taking next year. Take your list with you when you meet with your guidance counselor to plan your schedule for next year during February, March or April. Please review graduation requirements and be prepared with course requests and any questions you may have.

The emphasis of a student's program will be on the required core academic courses, not on selected electives. There are courses where, due to space availability, priority will be given to upperclassmen first.

Sem 1 = First Semester  
Sem 2 = Second Semester  
Sem 3 = All Year

ARLINGTON HIGH SCHOOL 2012 - 2013

<u>ENGLISH</u>	<u>SEM</u>	<u>SOCIAL STUDIES</u> continued	<u>SEM</u>
1080 ENGLISH 9 R	3	2420 AP WORLD HISTORY	3
1100 ENGLISH 9 H	3	2430 CRIMINAL LAW	1&2
1130 ENGLISH 10 R	3	2440 CONSTITUTIONAL/CIVIL LAW	1&2
1150 ENGLISH 10 H	3	2600 THE CIVIL WAR	1&2
1180 ENGLISH 11 R	3	2610 THE 20 <sup>TH</sup> CEN. FILM & MUSIC	1&2
1220 AP ENGLISH 11 LANG & COMP	3	2620 AMERICA AT WAR 20 <sup>TH</sup> CEN.	1&2
1240 PRACTICAL SNR ENGLISH 12	1&2	2650 THE SIXTIES	1&2
1260 COLLEGE PREP ENGLISH 12	3	2770 MULTI-CULTURAL STUDIES	1&2
1270 AP ENGLISH 12 LIT & COMP	3	2780 HUDSON RIVER HERITAGE	1&2
1280 ENG 101	1&2	2790 AMER PERSPECTIVE WOMEN	1&2
1281 ENG 102	1&2		
1290 READING NONFICTION	1&2		
1320 CONTEMPORARY LITERATURE	1&2		
1330 SPORTS IN LITERATURE	1&2		
1340 CHILDREN'S LITERATURE	1&2		
1351 BRITISH LITERATURE	1&2	<u>MATHEMATICS</u>	<u>SEM</u>
1360 WOMEN IN LITERATURE	1&2	3050 REMEDIAL INTEGRATED ALG	3
1390 AFRICAN-AMERICAN LIT	1&2	3110 ALGEBRA 1 A	3
1410 CREATIVE WRITING	1&2	3115 ALGEBRA 1 B	3
1440 POETRY	1&2	3150 ALGEBRA 1	3
1450 PUBLIC SPEAKING	1&2	3160 INTERMEDIATE ALGEBRA	3
1460 WAR IN LITERATURE	1&2	3240 INTRODUCTION TO GEOMETRY	3
1470 SHAKESPEARE	1&2	3250 GEOMETRY	3
1610 FNDATN READ&WRITE	1	3270 GEOMETRY H	3
1620 FNDATN READ&WRITE	2	3300 MATHEMATICAL APPLICATIONS	3
		3350 ALGEBRA 2 & TRIGONOMETRY	3
		3370 ALGEBRA 2 & TRIGONOMETRY H3	3
<u>SOCIAL STUDIES</u>	<u>SEM</u>	3410 TRIGONOMETRY	3
2000 GLOBAL 1 LAB	1	3440 MATH 4	3
2010 GLOBAL 1 LAB	2	3450 MATH 4+	3
2020 GLOBAL 2 LAB	1	3460 MATH 4 H	3
2030 GLOBAL 2 LAB	2	3501 INTRODUCTION TO CALCULUS	1&2
2040 GLOBAL HISTORY 1 R	3	3540 CALCULUS	3
2060 GLOBAL HISTORY 1 H	3	3550 AP CALCULUS AB	3
2140 GLOBAL HISTORY 2 R	3	3560 AP CALCULUS BC	3
2160 GLOBAL HISTORY 2 H	3	3601 INTRODUCTION TO STATISTICS	1&2
2170 US HIST LAB	1	3650 AP STATISTICS	3
2180 US HIST LAB	2	3760 COMPUTER PROGRAM W/JAVA	1&2
2190 GLOBAL HISTORY AIS	1&2	3770 INTRM COMP PRGRM W/JAVA	1&2
2200 US HISTORY AIS	1&2	3780 AP COMPUTER SCIENCE A	3
2240 US HISTORY & GOV'T R	3	3810 ADVANCED MATH SEMINAR 1	1
2260 AP UNITED STATES HISTORY	3	3820 ADVANCED MATH SEMINAR 2	2
2270 AP MACROECONOMICS	1		
2280 AP MICROECONOMICS	2		
2300 ECONOMICS IN REAL WORLD	1&2		
2320 ECONOMICS	1&2		
2325 ECO 105	1&2		
2330 RIGHTS & RESPONSIBILITIES	1&2		
2350 PARTICIPATION IN GOV'T	1&2		
2353 CIVIC ACTION & LEADERSHIP	1&2		
2355 GOV 121	1&2		
2370 AP UNITED STATES GOVT	1		
2380 AP COMPARATIVE GOVT	2		
2400 DEVELOPMENTAL PSYCHOLOGY	1		
2410 PSYCH OF INDIVIDUAL	2		

ARLINGTON HIGH SCHOOL 2012 - 2013

<u>SCIENCE</u>	<u>SEM</u>	<u>ART</u>	<u>SEM</u>		
4011	ACADEMIC INTRVNTN-BIO	1&2	6000	STUDIO IN ART ACCELERATED	1
4012	ACADEMIC INTRVNTN-EARTH	1&2	6010	STUDIO IN ART	3
4100	FNDATNS OF CHEMICAL SCI	1&2	6040	STUDIO IN CRAFTS	3
4110	FNDATNS OF PHYSICAL SCI	1&2	6060	DYNMICS OF VISUAL COMMN	1&2
4240	FNDATNS OF LIVING ENVIRNMT	3	6070	IMAGINATVE SOLUTNS & DES	1&2
4250	REGENTS BIOLOGY	3	6080	STUDIO IN DRAW & PAINT	3
4260	BIOLOGY HONORS	3	6090	STUDIO IN COMPUTER GRPHICS	3
4350	REGENTS EARTH SCIENCE	3	6095	ADVERTISING DESIGN	3
4450	REGENTS CHEMISTRY	3	6100	STUDIO IN ADV CMPTR GRPHICS	3
4460	CHEMISTRY HONORS	3	6110	DIGITAL IMAGING	1&2
4550	REGENTS PHYSICS	3	6120	ADVNCNCD STUDIO IN PAINTING	3
4600	TOPICS IN EARTH SCIENCE	3	6130	ADVNCNCD STUDIO IN DRAWNG	1&2
4605	TEACHING SCI THEORY&PRACT	3	6150	SCULPTURE	1&2
4611	MAR BIO-TNTACLS TO CLAWS	1&2	6180	STUDIO IN CERAMICS 1	1&2
4612	MARINE BIO-FINS TO FLUKES	1&2	6190	STUDIO IN CERAMICS 2	1&2
4630	FORENSIC SCIENCE	1&2	6200	POTTERY	1&2
4640	SRC: NATURAL DISASTERS	1&2	6210	STUDIO IN PHOTOGRAPHY	3
4650	CHEMISTRY IN COMMUNITY	3	6230	STUDIO IN GLASSWORKING	1&2
4660	SRC: EVOLUTION&ANML BHV	1&2	6240	STUDIO IN ADVNCD GLASSWRK	1&2
4670	CONTMPRY ISSUES BIO-BIO MED	3	6250	AP STUDIO IN ART	3
4690	ASTRONOMY	1&2	6260	AP ART HISTORY	3
4700	ARLINGTON GOING GREEN	1&2	6270	STUDIO IN PORTFOLIO DEVL P	1&2
4710	AP BIOLOGY	3			
4730	AP ENVIRONMENTAL SCIENCE	3			
4750	AP CHEMISTRY	3			
4760	AP PHYSICS C	3			
4800	SCIENCE RESEARCH	1&2			

MUSIC AND THEATRE ARTS SEM

6510	RUDIMENTS OF MUSIC	1&2
6520	PIANO 1	1&2
6530	PIANO 2	1&2
6550	MUSIC THEORY	3
6600	NINTH GRADE BAND	3
6620	CONCERT BAND	3
6630	SYMPHONIC BAND	3
6640	WIND ENSEMBLE	3
6720	MIXED CHORUS	3
6740	CONCERT CHOIR	3
6800	SYMPHONETTE	3
6820	SINFONIA	3
6840	SYMPHONY ORCHESTRA	3
6850	PHILHARMONIA	3
1480	INTRODUCTION TO DRAMA	3
1490	THEATRE PRODUCTION	3

FOREIGN LANGUAGE SEM

5010	FRENCH 1	3
5020	FRENCH 2	3
5030	FRENCH 3 R	3
5040	FRENCH 4	3
5050	AP FRENCH 5	3
5130	GERMAN 3 R	3
5140	GERMAN 4	3
5150	AP GERMAN 5	3
5210	ITALIAN 1	3
5220	ITALIAN 2	3
5230	ITALIAN 3 R	3
5240	ITALIAN 4	3
5250	AP ITALIAN 5	3
5410	SPANISH 1	3
5420	SPANISH 2	3
5430	SPANISH 3 R	3
5440	SPANISH 4	3
5450	AP SPANISH 5	3

ARLINGTON HIGH SCHOOL 2012 - 2013

<u>BUSINESS</u>		<u>SEM</u>	<u>FAMILY &amp; CONSUMER SCIENCE</u>		<u>SEM</u>
7000	KEYBOARDING 1	1&2	8500	FOOD & HUMAN SERVICES	3
7010	KEYBOARDING 2	1&2	8520	FOOD CORE	1&2
7020	COLLEGE PREP/ MICROSOFT	1&2	8530	LIFESPAN STUDIES CORE	1&2
7030	E-COMMERCE	1&2	8560	CHEF PREP	1
7070	CAREER AND FINANCIAL MGT	1&2	8570	CULTURAL FOOD	2
7100	ACCOUNTING	3	8580	BAKING & PASTRY	1&2
7120	COLLEGE ACCOUNTING	3	8585	ADVANCED CULINARY ARTS	1&2
7125	COMPUTRZD ACC'TNG APPS	1&2	8590	CHEMISTRY/HUMAN BODY	3
7130	BUSINESS LAW	3	8595	SPORTS AND NUTRITION	1&2
7150	FASHION MARKETING	1&2	8600	EARLY CHILDHOOD EDUCATION	3
7160	SPORTS&ENTRTAINMNT MRKT	3	8630	PARENTING	1&2
7164	COLLEGE INTRO TO BUSINESS	1&2	8640	WORLD OF FASHION	2
7165	COLLEGE MARKETING	1&2	8650	FASHION FOR YOUR FUTURE	1&2
7170	BUSINESS OF MUSIC	1&2	8660	PAPER TO PINS	1&2
7180	COOPERATIVE WORK EXPER	3	8670	TEEN ISSUES	1&2
7190	BCA/MICROSOFT OFFICE SUITE	3			
7210	PRSNL MONEY MGT	1&2			
7231	BUSINESS MANAGEMENT	3			
7260	INTGTED CMPTR SKL&APPL	1&2			

<u>HEALTH</u>		<u>SEM</u>
8700	HEALTH	1&2

TECHNOLOGY SEM

8000	COMMUNICATIONS SYSTMS	1&2
8010	PRODUCTION SYSTMS WOOD	1&2
8020	PRODUCTION SYSTMS METAL	1&2
8030	TRANSPORTATION SYSTEMS	1&2
8040	MATERIALS PROCESSING	1&2
8050	ELECTRICITY	1&2
8060	INTRO TO ENGINEERING DESIGN	3
8062	PRINCIPLES OF ENGINEERING	3
8090	LAND TRANSPRTATN/POWER	3
8100	CONSTRUCTION	1&2
8110	DIGITAL ELECTRONICS	3
8120	ENGINRNG DRWNG&DSGN/CAD	3
8131	THE WRLD OF ARCH/STRCTURL	3
8141	APPLIED ENGINEERING TECH	3
8151	PHOTO TECHNOLOGY 1	1&2
8161	PHOTO TECHNOLOGY 2	1&2
8170	DIGITAL PHOTO TECHNOLOGY	1&2
8181	AUDIO RECRDNG & PRDCTNS	1&2
8190	VIDEO PRODUCTIONS	1&2
8195	TELEVISION PRODUCTIONS	1&2
8200	FILM TECHNOLOGY	1&2
8210	CREATIVE FURN&CBNTMKNG	3
8220	JEWELRY	1&2
8230	CONSUMER AUTOMOTIVES	1&2
8240	CAREER & FINANCL MGT-A	1&2

PHYSICAL EDUCATION SEM

8791	IND STUDY DANCE-FALL	1
8792	IND STUDY DANCE-SPRING	2
8798	9 <sup>TH</sup> GRADE PE	3
8799	10 <sup>TH</sup> GRADE PE	3
8881	11 <sup>TH</sup> & 12 <sup>TH</sup> GRADE PE-FALL	1
8891	11 <sup>TH</sup> & 12 <sup>TH</sup> GRADE PE-SPRING	2
8910	INTRO ATHLETIC TRAINING	1
8920	ADVCD ATHLETIC TRAINING	2