

# Greenfield High School

Each Child's Success Is Our Mission



**Take a Close  
Look at...  
Greenfield High!**

## **PROGRAM OF STUDIES 2009-2010**





# GREENFIELD HIGH SCHOOL

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*Donna M. Woodcock*  
*Acting Principal*

*Guidance Counselors*  
*Siobhan Fitzgerald*  
*Shelly DeMeo*

Dear Students:

We are pleased to present to you the Greenfield High School Program of Studies for the 2009-2010 academic year. Our faculty and staff are especially happy to welcome the Class of 2013 and 2014 to Greenfield High School. It is our goal to build a positive school climate that allows for all students to achieve academically and to enrich their lives through exploration of a wide range of course offerings.

Our 2009-2010 Program of Studies reflects the mission of our school system. Please take the time to look carefully at all the offerings and check for the proper sequencing in departments. Certain courses are needed for high school graduation in Massachusetts. Other courses allow students to follow their dreams and try new areas of learning.

Your careful attention to the course selection process will help us to develop an educational program which will best meet the needs of each individual student. Graduation requirements are detailed in this catalogue and should be tracked yearly using the work sheet in the back.

Students will be registering online during school in May. We will be making decisions regarding teacher assignments, number of course sections, and the specific placement of courses in the master schedule based on student selections. It is for this reason that students need to be thoughtful in their selections and provide alternative selections on their registration sheets. After receiving all the student choices, a master schedule will be developed, and we will mail home a copy of each student's selections. This will be reviewed by the student's guidance counselor, current teachers, and the student's parent(s) or guardian(s). We encourage you to call the guidance department to discuss concerns or to plan for future academic success.

Next year, Greenfield High School will have an excellent educational program taught by a dedicated and highly qualified staff. Our high school is committed to providing each student an individualized, enriching education. We look forward to having an exciting high school program for you at Greenfield next year.

Sincerely,

*Donna M. Woodcock*

AN ACCREDITED MEMBER OF THE NEW ENGLAND ASSOCIATION OF SCHOOLS AND COLLEGES

## *A Note From Your Guidance Counselors....*

Welcome to Greenfield High School. This is an exciting place to be. Our new Program of Studies has been expanded, adding additional innovative, exciting, and challenging courses. We have also added several ways that a student can accelerate their studies by offering the following unique opportunities:

- Take college courses at Greenfield Community College as an upper-classman, earning high school graduation credits and college credits simultaneously!
- Explore in depth a subject of choice through mentoring and independent study opportunities with experts in the field.
- Take an online course and choose from over a hundred course offerings, like Introduction to Zoology or Entrepreneurial Studies.

It is our goal in the Guidance Department to work closely and carefully with each student by planning a four-year program of study that not only meets our vigorous credit and course requirements, but also furthers the future plans and desires of each student. So, whether you anticipate attending a four-year university, a two-year college, or embarking on a technical career, Greenfield High School is an excellent choice to meet your goal!

Please review our courses, observe our graduation requirements and use the sample four-year plan sheet to create a tentative plan of study. Use this plan as a springboard for discussion at home and with your guidance counselor.

We are looking forward to crafting a special plan for each of our students for next year.

Sincerely,

*Siobhan FitzGerald*

*Shelly DeMeo*

Siobhan FitzGerald  
Guidance Counselor  
Greenfield High School

Shelly DeMeo  
Guidance Counselor  
Greenfield High School



GREENFIELD HIGH SCHOOL  
1 Lenox Avenue  
Greenfield, MA 01301



**GREENFIELD HIGH SCHOOL'S  
MISSION STATEMENT**

The mission of Greenfield High School, in active partnership with students, families, and the community, is to provide for students' academic, social, and civic development. In an evolving society, our common purpose is to create a positive, safe, and supportive learning environment that will inspire students to achieve their personal best throughout their lives.

**PROGRAM OF STUDIES**

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## **STUDENTS AND PARENTS**

This Program of Studies booklet has been prepared to provide you and your parents with valuable information about course offerings and program planning at Greenfield High School. The decisions you make here are some of the most important you will ever make as they can have a great deal of impact on your future. Please select your courses carefully. Make your selections as challenging as possible taking into consideration your special interests and abilities, your future educational plans, and your future career plans.

This year you will register for courses on-line in the computer lab and will be mailed home a print out of your selections to be signed by your parent or guardian and returned to guidance. Should there be any questions, you and your parents are encouraged to call and make an appointment with guidance to resolve the issue.

Based on your course selections, a master schedule will be developed. The decisions you make here will also have a great deal of impact on the courses that are eventually offered, the master schedule, class sizes, and the availability of materials. Therefore, it is extremely important that you seriously consider your programs and carefully select your courses.

### **COURSE LOAD**

All students are required to elect a maximum of seven (7) courses for the school year. Six (6) courses per year are needed to meet graduation requirements. Students who need a period for studying, community service, or independent study may arrange this through guidance. We prefer students take advantage of the many courses and electives we offer.

### **COURSE AVAILABILITY**

While we will endeavor to meet all requests, please understand that due to conflicts among courses, limited enrollment, and combinations of courses selected, it is not possible to schedule every student for every class elected. The number of courses you select that have only one section greatly increases the likelihood that you will not be able to schedule all of these courses. Therefore, give serious consideration to selecting appropriate alternative courses, as they will be used if it is impossible to schedule your preferred electives. The availability of elective courses is contingent upon enrollments and the availability of staff.

### **ADVANCED PLACEMENT (AP) COURSES**

We presently offer grade 11 and 12 AP courses in History, Math, English and World Language. These courses are rigorous, demanding programs sponsored by the College Board. All students taking AP courses across the country follow the same curricula. These courses allow students to take college-level courses while in high school. At the completion of the course, an examination is administered for which students have the opportunity to earn college credit or appropriate placement in college. Each college, however, determines how it will use the AP Examination results. (Students are responsible for all associated testing fees). You will need to get Department approval in each of these subjects in order to take the course in that specific area.

## **CREDITS NEEDED TO GRADUATE: 120 Credits**

**(24 year-long courses or the equivalent)**

### **DISTRIBUTION OF GRADUATION REQUIREMENTS**

#### **Minimal Course Requirements:**

- a. Four (4) English courses (year long)
- b. Three (3) Math courses (year long)
- c. Three (3) Science courses (year long)
- d. Three (3) Social Studies courses (year long)
- e. One (1) Health course (two 1/2 year courses)
- f. Two (2) Wellness courses (four 1/2 year courses)
  - i. Wellness includes courses that develop lifelong activities, fitness activities, weight training, yoga, dance, tennis, and physical education classes. Participation on a team does not exempt students from the state wellness requirement
- g. One (1) Technology course
  - i. Technology courses include web design, film production, computer animation, computer programming, computer aided design, woodworking and construction, metalwork, and manufacturing, sustainable technologies, etc.
- h. Two (2) Arts and Humanities courses (equivalent of 2 year long courses)
  - i. Humanities and art courses include: arts, music, world language, business, film studies, textile arts, culinary arts, etc.
- h. Five (5) electives, in any area (equivalent of 5 year-long courses).

It is recommended that students take four years in all core subject areas including world language. We encourage all students to explore a rich array of electives and fields of study.

## **Credit Distribution, Additional Information**

1. The Science requirement must include:
  - a. Life Science
  - b. Physical Science
  - c. At least one Additional Science

College bound students are encouraged to take either physical science or chemistry after grade 9. Double courses in science are allowed, e.g. to prepare for a college major in engineering, pre-med, research biology, etc.

2. The Social Studies requirement must include:
  - a. World History
  - b. U.S. History I
  - c. U.S. History II

3. The Humanities/Arts requirement can be met by any of the courses from one or more of the following departments:
  - a. Art
  - b. World Language
  - c. Music
  - d. Other –business, film studies, textile arts, culinary arts, etc.

The Health/Wellness requirement must include:

- a. 1 Semester Health A (recommended for grade 9)
- b. 1 Semester Health B (recommended for grade 10)
- c. 2 Semesters Wellness (recommended for grade 9 or 10)
- d. 2 Semesters Wellness (recommended for grade 11 or 12)

## **POLICY ON EARLY GRADUATION, REQUIREMENTS**

Students who complete graduation requirements by the end of the first semester of their senior year may be exempt from attending classes at Greenfield High School during the second semester if they:

- notify guidance by May of their junior year that they intend to graduate early, and
- complete the Early Graduation Contract form.



## **ART230 CLAY & POTTERY 1**

**Semester Course Grades 9-12**

**2.50 Credits**

Clay-Pottery 1 is an advanced course requiring much production and finished work. In this course, students can elect pottery or clay sculpture or both. Students will learn or refine basic hand building techniques, develop skills in wheel-thrown pottery, learn about glazing and basic clay sculptural techniques. You will also be introduced to the history of ceramics and techniques from other cultures.

## **ART240 CLAY & POTTERY 2**

**Semester Course Grades 9-12**

**2.50 Credits**

Using the basic skills you learned in Clay-Pottery 1; you will now spend time improving and refining your skills. You will choose a method of construction or technique to concentrate on. You will also be developing a variety of glazing techniques. This is a course that requires a disciplined and independent student.

## **ART310 TEXTILE ART & DESIGN**

**Semester Course Grades 10-12**

**2.50 Credits**

**Prerequisite: Art 1 & Art2**

This is a new high school elective course that will introduce students to the world of textiles, fibers, textile design, fiber origins and use. Course content will have embedded academic strands from science, history, world cultures, sustainable living, technology standards, and art history. Textile design units will include but are not limited to: airbrushing, silk-screening, sewing, quilting, batik, tie dye, felting, weaving, embroidery, bargello, and knitting. Students will have opportunities for projects based on creativity and self-expression as they work with colors, textures, fibers, fabrics, and a variety of art mediums. Students may discover that they have an interest that may lead to further study in college degree programs and careers in the expansive textile industry.

## **ART400 ART HISTORY**

**Semester Course Grades 10-12**

**2.50 Credits**

Learning about world history through the eyes of art and design. Art history is recommended for students who may go into an art or design field.

## **EXPANSION OPPORTUNITIES:**

**Students can expand their art interests in art studies through college courses, on-line courses, and/or independent studies for credit.**

**Below is a sampling of Art Courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition Program:**

Art History I  
Art History II  
History of Modern Art

Two-Dimensional Design  
Drawing I  
Introduction to Photography

**Courses in art may also be available through on-line course offerings 2009/2010**

AP Art History  
Art History: Renaissance to Present

Creating Art History  
History of Photography

**Self-Designed Independent Research Opportunities are available for students on an individual basis with administrative approval.**



## **TEC450 TV DIGITAL FILM PRODUCTION**

**Semester Course Grades 10-12**

**2.50 Credits**

Students will learn about film production by producing short PSA, documentaries, and short films. The course will cover the technical aspects of working with cameras digital editing software, as well as the creative process of shot composition, screenwriting, and storytelling.

## **TEC451 FLASH COMPUTER ANIMATION**

**Semester Course Grades 10-12**

**2.50 Credits**

Students build upon the skills learned in TV Digital Film Production to produce several short Public Service Announcements, documentaries, and short films to be shown on the local access cable channel. Working in conjunction with GCTV, the local cable access channel, students will be exposed to the roles and responsibilities of local cable broadcasting in the community. Students will also work to produce a daily news program in the schools TV studio to be shown on the Channel One televisions, which will replace the morning announcements.

### **EXPANSION OPPORTUNITIES:**

**Students can expand their interests in communications and technology through college courses, on-line courses, and/or independent studies for credit.**

**Below is a sampling of Technology courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition Program:**

Java Script

A++ programming

Selling on eBay

Public Speaking

Design Technology

Information Technology Careers

**Courses in art may also be available through on-line course offerings 2009/2010**

The Science of Computers

Computer Programming

Careers in Computer Technology

Film Studies

**Self-Designed Independent Research Opportunities are available for students on an individual basis with administrative approval.**



## **ENG200            ENGLISH 10**

**Full Year Course    Grade 10**

**5.00 Credits**

Emphasis in this course is on meeting the objectives and goals appearing in the English Language Arts Curriculum Frameworks.

Students will write a five-paragraph essay, which consists of a short introduction, three fairly lengthy body paragraphs, and a conclusion. A minimum number of five essays, with revisions, are required. Students will read literature from around the world.

## **ENG203            ADVANCED ENGLISH 10**

**Full Year Course    Grade 10**

**5.00 Credits**

- **Students who sign up for this course may do so only with permission of the GHS English Department.**
- **Students taking this course are required to read two major literary works over the summer. The reading will be chosen by the English Department and integrated into the sophomore course in September. The literature will be selected from prose and poetry from around the world. Students will study and analyze writing and reading in a variety of literary genres.**

Emphasis in this course is upon meeting the objectives and goals for the English Language Arts Curriculum Frameworks.

## **ENG305            AMERICAN LITERATURE**

**Full Year Course    Grade 11**

**5.00 Credits**

Emphasis in this course is on meeting the objectives and goals appearing in the English Language Arts Curriculum Frameworks.

Junior English uses literature as the springboard to the writing assignments. The writings may be reaction papers, character analyses, interpretations of theme or symbol, investigations into the effective uses of specific literary devices, plot summaries, paraphrases, comparisons between two or more pieces of good literature, contrasts between good and bad works of literature, and so on. A minimum of four major essays is assigned, though there are several smaller writings that complete the portfolio for the course.

The literature will be selected from the rich canon of American prose writings and poetry, from Colonial times to the present. The students will study and analyze a host of writings and readings in an effort to determine what there is about American literature that makes it specifically American and not European.

This course will also include SAT prep and an English technical writing component.

## **ENG306            ADVANCED AMERICAN LITERATURE**

**Full Year Course    Grade 11**

**5.00 Credits**

Emphasis in this course is on meeting the objectives and goals appearing in the English Language Arts Curriculum Frameworks.

Essay topics are derived from personal experiences and course literature. The sole exception is the extended argument paper. The subject for this particular assignment comes mainly from research. The length is dictated by the scope of the thesis; however, the average runs four double-spaced typewritten pages. This course will also examine several short works of fiction from various authors.

## **ENG303            AP ENGLISH 11 – LANGUAGE**

**Full Year Course    Grade 11**

**5.00 Credits**

- **Students who sign up for this course may do so only with permission of the GHS English Department.**
- **Students taking this course are required to read two major literary works over the summer. The readings will be chosen by the English Department and integrated into the junior course in September.**
- **Two essays will be turned in to the instructor on the first day of class.**

In this Advanced Placement course, students will study a variety of classic works of literature chosen by the teacher and recommended by the AP Committee. The course does prepare students for passing the “Advanced Placement Language and Composition” exam given in May. Frequent writing and careful analytical readings provide depth of content and preparation for success on AP and SAT exams. AP exam is required.

## **ENG412            WORLD LITERATURE**

**Full Year Course    Grade 12**

**5.00 Credits**

Emphasis in this course is on meeting the objectives and goals appearing in the English Language Arts Curriculum Frameworks. This course is divided into two specific units: Literature and Writing.

The literature component explores modern ideas and techniques. It consists primarily of the four most common forms--plays, short stories, poems, and novels. As the course progresses, students write about the literature covered, and make short and informal oral presentations.

The writing component focuses on writing styles as well as practical writing used by adults, e.g. clear memos, letters, resumes and cover letter, informal reports, personal notes, etc. During the writing unit, students review and master editing basics, i.e., grammar, usage, mechanics, and punctuation.

## **ENG413            ADVANCED WORLD LITERATURE**

**Full Year Course    Grade 12**

**5.00 Credits**

Emphasis in this course is on meeting the objectives and goals appearing in the English Language Arts Curriculum Frameworks.

### **Western Literature from the Greeks to the Present:**

This course is a study of some of the works that stand at the center of the Western literary tradition, beginning in ancient Greece and continuing through to the end of the twentieth century. Students become familiar with themes, issues and essential questions that writers have pondered for over two thousand years and that have come to frame Western Civilization.

The analysis of individual pieces of literature, their aesthetics and their ideas, as well as in the interconnectedness of past and present, constitute the approach taken in the course. Four major compositions are required.

## **ENG410            AP ENGLISH 12-LITERATURE**

**Full Year Course    Grade 12**

**5.00 Credits**

- **Students who sign up for this course may do so only with the permission of the GHS English Department.**
- **Students taking this course are required to read two major literary works over the summer. The readings will be chosen by the English Department and integrated into the senior course in September.**

Literary works studied are chosen from a list recommended by the AP Committee. There is ample time for discussion of writing technique and character development. Frequent writing exercises connect to the types of writing responses required on the AP exam. AP exam is required. This Advanced Placement course helps students prepare for the English Literature AP exam given in May.

## **ENG404 & 405 EARLY GRAD ENGLISH**

**Semester Course    Grade 12**

**2.50 Credits**

You must take both courses to complete your 12th grade English Requirement

## **ENG520            CREATIVE WRITING**

**Semester Course    Grades 9-12**

**2.50 Credits**

This course is a writing elective for students who have a wide range of abilities and interests. It will cover all phases of creative writing from prewriting to drafting to editing and publishing. Students will explore the creative process by choosing their own topics and types of writing, trying out new techniques and skills, and reflecting on what does and doesn't work in their own writing. In addition, exercises designed to help students develop their craft will be provided, stories, poems and plays by established writers will be read and analyzed for models, and the lives of established writers will be studied in order to gain a deeper understanding of the human desire to create literature. Presentations and discussions of student work will also be part of the course. Students will be responsible for creating a portfolio of their work in various genres during the course. Portfolio will consist of approximately 20 pages of original poetry, fiction, essay, drama, or screenplay taken from students' writing journals. Students should have worked through a suitable number of drafts of each portfolio piece so as to achieve publishable quality.

## **ENG516            FILM STUDIES**

**Semester Course    Grades 10-12**

**2.50 Credits**

This course will introduce students to some of the major issues in film studies, including film analysis and approaches to film history and theory. The course will consider questions of aesthetics, technology, politics, and even philosophy, as these play out in film and film studies. Although we will not shy away from the technical aspects of film production or resist situating movies in their historical context, the course goal is learning about the construction of movies and the role cinema plays in relating individuals to the values and assumptions of their culture. As an English elective, Film Studies helps students improve written, spoken and analytical skills. Students will discuss, analyze and write about films they preview. Quizzes will help students review lectures and assigned reading. There will be four (4), two-page film reviews.

## **ENG601 BRITISH LITERATURE**

**Semester Course Grades 10-12**

**2.50 Credits**

This is a one semester introductory course to some of the greatest pieces of literature in the British tradition such as Beowulf and Chaucer and has composition components. This course is primarily for juniors and seniors. Critical skills in reading, thinking, and writing are emphasized and applied. Writing assignments challenge students to refine writing skills in preparation for researching, developing, and documenting a thesis topic in an extended, critical paper.

## **ENG513 JOURNALISM 1 -Intro to Journalism**

**Semester Course Grades 9-11**

**2.50 Credits**

This introductory course focuses on the history and responsibilities of journalism in various media, concentrating on print journalism. The student will learn the basics of news, editorial, feature, and sports writing, as well as study advertising, interviewing, and proofreading. Students will learn basic newspaper layout on paper and on the computer using Open Office. Many assignments will be based on field work and will require attendance at events beyond the school day. This is not a creative writing course.

## **ENG512 JOURNALISM 2 -The Exponent**

**Semester Course Grades 10-12**

**2.50 Credits**

**Prerequisite: Journalism 1 or special arrangement by instructor**

This workshop course offers the enthusiastic student a challenging opportunity to put journalism knowledge to work. Self-motivated, responsible students publish the school newspaper The Exponent, both online and in newsprint, through writing, advertising, computer layout, photography, copy editing, and proofreading. Students also study the Associated Press Style Manual and write regular assignments based on current events.

## **ENG525 TECHNICAL WRITING I**

**Semester Course Grades 9-12**

**2.50 Credits**

For students seeking a college degree in the sciences, this course will offer a foundation for writing that is neither literary nor creative. The emphasis will be on writing and reading technical manuals, research documents, and business correspondence.

## **ENG470 BIOGRAPHIES AND AUTOBIOGRAPHIES**

**Semester Course Grades 10-12**

**2.50 Credits**

Do you like learning about people? Biographies and autobiographies will introduce students to literature and stories of peoples' lives. Students will research biographies and autobiographies of people in the arts, sciences, literature, teens, movie stars, sports figures, explorers, politicians and will even write a chapter of your own life. This is an enjoyable and interesting genre of literature where students can read about different people and share what they've read with classmates.

## **ENG472 HEROES AND HEROINES**

**Semester Course Grades 10-12**

**2.50 Credits**

We all need heroes and heroines, figures who inspire us. From Joan of Arc to Superman our heroes and heroines exemplify values of honor, trustworthiness, bravery, hard work, beauty, and goodness. This class will identify stories of legendary heroes and heroines--real and mythological characters--that have inspired humanity through all times.

# **ENG471 WRITERS OF THE PIONEER VALLEY**

**Semester Course Grades 10-12**

**2.50 Credits**

From Emily Dickinson to Tracy Kidder to the colorful Eric Carle, the valley where we live has been and is home to many successful writers. Learn about the famous writers of adult and children's literature who walked and still walk on the streets where you live. Robert Frost, Kurt Vonnegut, Sylvia Plath. Anita Shreve. This is a one semester elective open to all grades.

## **EXPANSION OPPORTUNITIES:**

Students can expand their interests in English, Literature, and Writing through college courses, online courses, and approved independent studies.

Below is a sampling of English and Literature courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition programs:

College Writing Strategies	Modern Novel
College Reading Strategies	Survey of Children's Literature
English Composition	Modern Poetry
Exploring Literature and Creative Writing	Women in Literature I
Gothic Literature	Women in Literature II
Graphic Novel	American Literature in the Valley
Ethnic Literature	The Short Story
Survey of Latin American Literature	Modern Novel

## **Courses we anticipate being available through online course offerings in 2009/2010:**

101 Ways to Write a Short Story	Contemporary Irish Literature
Academic Writing	Creative Writing
AP English Language and Composition	Cultural Identity through Literature
Around the World in 80 Days	Fantasy and Science Fiction Short Stories
AP English Literature and Composition	Film and Literature: the European Experience
Blogs, Wikis, and Web Tools: Research in a Digital Age	Contemporary Irish Literature

**Self-Designed Independent Research opportunities are available for students on an individual basis with administrative approval.**

# MATHEMATICAL STUDIES

Massachusetts state colleges and the university admissions standards require three (3) years of math. The Mathematics Department strongly urges students to take four (4) years of math to be competitive in both college and the workplace.

Students should complete Algebra 1 and Geometry/Integrated Math to have the best preparation for the grade 10 Math MCAS. Students not reaching this level by the end of grade 10 will have supplementary material in their classes to improve their skills and will have additional opportunities for review, remediation and MCAS retakes, as necessary.

## **MAT115            ALGEBRA 1**

**Full Year Course    Grade 9**

**5.00 Credits**

**Prerequisite: Placement test results and teacher recommendation**

In this course, students will learn to describe the world around them with algebraic expressions, equations, graphs and statistics. Integrated applications provide a context for the abstract language of algebra as well as reinforce the important skills, properties and representations. A scientific calculator is required.

## **MAT119            ADVANCED ALGEBRA 1**

**Full Year Course    Grade 9**

**5.00 Credits**

**Prerequisite: 87 or better in Math 8, placement test results, and teacher recommendation**

This course is taught at an accelerated pace and is intended for students with a strong background in math. It covers all Algebra 1 topics, with additional enrichment topics to better prepare students for advanced study in mathematics. A scientific calculator is required.

## **MAT200            GEOMETRY**

**Full Year Course    Grades 9-12**

**5.00 Credits**

**Prerequisite: 73 or better in Algebra 1**

Students will learn traditional geometric topics such as constructions, angle measure, and the area of triangles, quadrilaterals, and other polygons, volume, congruence, similarity, right triangle, trigonometric ratios, circles and geometric proof through an inductive approach. Construction of two and three-dimensional models and use of the computer-based Geometers Sketchpad are an important part of this course. A compass, protractor, straight-edge, scientific calculator and loose-leaf notebook are required for this course.

## **MAT206            ADVANCED GEOMETRY**

**Full Year Course    Grades 9-10**

**5.00 Credits**

**Prerequisite: 87 or better in Algebra 1**

This course is taught at an accelerated pace and is intended for students with a strong background in mathematics. It covers all Geometry topics, with additional enrichment topics to better prepare students for advanced study in mathematics. A compass, protractor, straight-edge, scientific calculator and loose-leaf notebook are required for this course.

## **MAT320            INTEGRATED MATH**

**Full Year Course    Grade 10**

**5.00 Credits**

**Prerequisite: Teacher recommendation**

This is a second year math course designed to reinforce and expand upon algebra skills while introducing geometric concepts necessary for students to achieve success on the 10th Grade Math MCAS. Topics include linear and quadratic functions and their graphs, ratio and proportion, measures of central tendency, angle measure, and area of polygons, volume of solids, congruence, similarity, right triangles, and circles. A scientific calculator is required.

## **MAT300            ALGEBRA 2**

**Full Year Course    Grades 10-12**

**5.00 Credits**

**Prerequisite: 73 or better in Algebra 1 and successful completion of Geometry**

This course emphasizes using quadratic forms, powers, roots and the functions based on these concepts. Students will study matrices, logarithmic and exponential functions, polynomials, sequences and series, and other functions as tools for modeling real world situations. A scientific or TI-83 or TI-84 graphing calculator is required.

## **MAT306            ADVANCED ALGEBRA 2**

**Full Year Course    Grades 10-11**

**5.00 Credits**

**Prerequisite: 73 or better in Algebra 1 and successful completion of Geometry**

This course is taught at an accelerated pace and is intended for students with a strong background in Algebra 1 and Geometry. It covers all Algebra 2 topics, with additional enrichment topics to better prepare students for advanced study in mathematics. A TI-83 or TI-84 graphing calculator is required.

## **MAT450            PRE-CALCULUS**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Prerequisite: 73 or better in Algebra 2**

This course prepares students for the study of Calculus. Students will learn to use a graphing calculator in the study of polynomial, rational, exponential, and logarithmic and trigonometric functions. Additional topics may include polar and parametric equations, conic sections, probability and statistics. A TI-83 or TI-84 graphing calculator is required.

## **MAT451            ADVANCED PRE-CALCULUS**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Prerequisite: 87 or better in Algebra 2**

This course is taught at an accelerated pace and is intended for students with a strong background in mathematics. It covers all Pre-Calculus topics, with additional enrichment topics to better prepare students for Advanced Placement Calculus. A TI-83 or TI-84 graphing calculator is required.

## **MAT500            AP CALCULUS**

**Full Year Course    Grade 12**

**5.00 Credits**

**Prerequisite: 83 or better in Honors Pre-Calculus, or Teacher Recommendation**

This course develops the student's understanding of calculus and provides experience with its methods and applications. The course emphasizes a multi-representational approach to Calculus with results and problems being expressed geometrically, numerically, analytically, and verbally. Topics include; 1) functions, graphs, and limits, 2) derivatives, 3) integrals, and 4) slope fields. Technology is used to explore, to confirm work, and to assist in interpreting results. Students registered for AP Calculus must take the AP exam in May. A TI-83, TI-84, or TI-89 graphing calculator (recommended by The College Board) is required.

## **MAT310            APPLIED MATH**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Prerequisite: Successful completion of 2 full-year math courses**

This course is designed to introduce students to several applications of mathematics as integrated in the real world. Topics of study may include creating scale models, game theory, survey techniques, data analysis, statistics, probability, and interdisciplinary units relating to science and social studies. The concepts will be explored through group projects, individual assignments, and service learning opportunities.

## **MAT325            FINANCIAL PLANNING**

**Semester Course    Grades 11-12**

**2.50 Credits**

This course is based on a curriculum designed by the National Endowment for Financial Education. Its purpose is to alert, inform, and educate high school students about sound money management skills and the financial planning process. Topics of study include an overview of financial planning, career options, budgets, saving and investing, credit, and insurance.

## **BUS102            ACCOUNTING 1-S1**

**Semester Course    Grades 10-12**

**2.50 Credits**

This introductory course will give students a thorough background in basic accounting procedures used for business or personal use. The accounting procedures presented will also serve as a sound background for employment in office jobs and preparation for studying business courses in college. Because the complete accounting cycle is covered for both proprietorships and partnerships, it is easy to see how each employee's job fits into the cycle for a business, an important qualification for employers.

## **BUS240            ACCOUNTING 2-S2**

**Semester Course    Grades 10-12**

**2.50 Credits**

**Prerequisite: Successful completion of Accounting 1**

This course expands on topics learned in Accounting 1 while adding new topics about management accounting, cost accounting, not-for profit accounting, and financial analysis. The study of Accounting 2 helps qualify students for jobs and careers at higher levels than a one-year of study would allow. It is also an excellent background and preparation of college business majors. Research has proven that students who have successfully completed two years of high school accounting are more successful in their first year of college accounting than students without that background. In addition, the cost, budgeting, and financial analysis topics are useful tools for the new entrepreneur.

## **EXPANSION OPPORTUNITIES:**

Students can expand their program of studies in mathematics through college courses, online courses, and independent studies designed around the student's particular interests.

**Below is a sampling of Math Courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition programs:**

Basic Mathematic Skills  
College Algebra  
Introduction to Statistics

Mathematical Problem Solving  
Mathematics for Early Childhood and Education

**Below are courses we anticipate being available through online course offerings 2009/2010:**

AP Statistics  
How to Use Math in the Real World  
Introduction to Statistics

Math You Can Use in College  
Mathematical Reasoning and Logic

**Self-Designed Independent Research opportunities are available for students on an individual basis with administrative approval.**

# MUSIC STUDIES

## **MUS450 BAND A 1st SEMESTER**

## **MUS451 BAND B 2nd SEMESTER**

**Semester Courses Grades 9-12**

**2.50 Credits**

The Band performs at football games, parades, concerts, and clinics. Among the objectives is the understanding of traditional harmony, harmonic progression, the role of rhythm, and styles of music performed by bands. Socially, students are expected to relate their efforts to the success of the group and to gain an understanding of how their participation in a large group contributes to the creation of an artistic performance. Section rehearsals and extra practices are mandatory to insure the success of the group. Attendance at public and school performances during the course of the year is mandatory.

## **MUS130 CHORUS 1st SEMESTER**

## **MUS131 CHORUS 2nd SEMESTER**

**Semester Courses Grades 9-12**

**2.50 Credits**

Chorus is offered to all students who have a desire to discover more about themselves through singing. Students who enroll in chorus are not expected to know their voices, since the course offers an opportunity to work with methods and techniques of improving the vocal sound. Emphasis will be placed on the highest quality vocal ensemble music attainable by the given combination of students. Attendance at public and school performances during the course of the year is mandatory.

## **MUS155 MUSIC AS A LANGUAGE**

**Semester Course Grades 10-12**

**2.50 Credits**

This course covers the first steps in learning musical notation, harmony, and composition. It includes a review of early music notation systems. Students will explore different music instruments and how music for voice and each instrument is written. Lastly, students can try their own hand at composition.

## **EXPANSION OPPORTUNITIES:**

**Below is a sampling of Music courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition programs:**

An Introduction to Music  
Jazz Eras and Styles  
Music Theory Fundamentals  
Jazz and Pop Chorus  
Music Theory I  
Music Theory II  
Jazz Theory: Tools for Improvisation  
20<sup>th</sup> Century American Popular Music

World Music Ensemble  
World Music and Cultures  
Creative Musicianship  
American Popular Music Section  
History and American Pop Music  
Music Composition and Arranging  
Music Listening and Critique

**Courses available through our anticipated on line course offerings during 2009/2010:**

Music Composition and Arranging  
Music Listening and Critique

American Popular Music

**Self-Designed Independent Research Opportunities are available for students on an individual basis with administrative approval.**

# SCIENCE STUDIES

Massachusetts state college and university standards require at least three (3) years of science. The GHS Science Department requires (3) years of science for graduation, and strongly recommends students take four (4) years of science to be competitive in both college and the workplace.

## Two Required Courses for freshmen and sophomores

9<sup>th</sup> Grade Science Requirement – IPS or Introduction to Physical Science, or  
Advanced IPS

10<sup>th</sup> Grade Science Requirement – Biology or Advanced Biology

## Courses for juniors and seniors

Advanced Chemistry

Chemistry in the Community

Physics

Advanced Physics

Anatomy & Physiology

Plants & the Environment

Field & Marine Biology

Aquaculture

## Independent Research Projects

An Independent Research Project is required of students enrolled in advanced level classes. Those courses include: Advanced ChemCom, Advanced Biology, Advanced Chemistry, Advanced Physics, Advanced Physics 2, and Anatomy & Physiology. Students will research an area of scientific interest, propose a science project, write a literature review, plan and implement an investigation, and present their findings. Students will also have the opportunity to enter their science projects in the GHS Science Fair as well as the Western Regional Science Fair.

## SCI680 INTRODUCTORY PHYSICAL SCIENCE (IPS)

Full Year Course    Grade 9    5.00 Credits

Physics A First Course uses guided inquiry, contemporary ideas and language, hands-on investigation, and multiple learning styles to help all students learn and succeed. The program provides a solid grounding in physics concepts and a firm foundation for further science study. Consistent with the “Physics First” philosophy, this Teaching and Learning System offers connections to the real world as well as to technology, chemistry, biology, and other sciences. The program reinforces math and science comprehension skills while it builds an understanding of how the world works.

## SCI685 ADVANCED INTRODUCTORY PHYSICAL SCIENCE

College-Prep Level    (IPS)  
Full Year Course    Grade 9    5.00 Credits

Science 9 is an introductory science course focusing on the physics of forces, motion, heat, waves, and electromagnetism. This course requires a good working knowledge of basic algebra and graphing. Students will take the Introductory Physics MCAS exam in June.

## **SCI200            BIOLOGY**

**Full Year Course    Grade 10**

**5.00 Credits**

This course, or the Advanced Biology course, is required for all sophomores. This course is divided into six major modules including, basic concepts of the chemistry of life, cellular biology, genetics, evolution and animal body systems. Using a hands-on laboratory-based approach to the life sciences, students begin with various investigations to set a foundation of good scientific research and experimentation. The first semester will involve an overview of chemistry, ecology, and cytology, the second semester continues with in-depth studies that relate to personal well being which includes genetics and human anatomy.

Students enrolled in this course and have not successfully completed the Massachusetts State Competency test will take the biology MCAS test in the spring to meet graduation requirements.

## **SCI210            ADVANCED BIOLOGY**

**Full Year Course    Grade 10**

**5.00 Credits**

This accelerated course is designed for all sophomores preparing for science as a major in college. This course is divided into six major modules including, basic concepts of the chemistry of life, cellular biology, genetics, evolution and animal body systems. Using a hands-on laboratory-based approach to the life sciences, students begin with various investigations to set a foundation of good scientific research and experimentation. The first semester will involve an overview of chemistry, ecology, and cytology, the second semester continues with in-depth studies that relate to personal well being which includes genetics and human anatomy.

**An Independent Research Project is required of students enrolled in Advanced Biology (Refer to the description of the Independent Research Project above course descriptions)**

## **SCI400    CHEMISTRY IN THE COMMUNITY (CHEMCOM)**

**Full Year Course    Grade 11-12**

**5.00 Credits**

ChemCom is a yearlong course that emphasizes the impact of chemistry on society. Built around real-life environmental issues, this chemistry course is a standard college preparatory course that introduces students to the basic concepts of chemistry. Through the investigation of environmental problems, the major topics studied include: properties of matter, atomic structure, the periodic table, bonding, chemical reactions, states of matter, solutions, and acids & bases. Other related topics which are interwoven throughout the course include the chemistry of life, ecology, and cytology. Chemistry is a hands-on laboratory oriented course that helps students to develop the skills necessary for problem solving. The topics covered in this course also support some of the concepts covered in Biology and assist in the preparation for the Biology MCAS test taken by students at the end of their sophomore year.

## **SCI800            WEATHER, CLIMATE AND METEOROLOGY**

**Semester Course    Grades 11-12**

**2.50 Credits**

Do you understand these terms? There are huge differences in meaning. If interested, and if you are an upper class student with a “keen” interest in weather and the internet, this could be the course for you. With the use of computer models from various internet weather sites, you will learn how to predict the weather and answer such questions as; will it rain, snow, sleet or hail or why is it so hot in the desert and so cold in the mountains? This course is open to upper class students with access to the internet at home.

## **SCI316            FIELD & MARINE BIOLOGY**

**Full Year Course    Grades 11-12**

**5.00 Credits**

This is a cooperative project based program that is student driven offered on an alternating schedule from Anatomy and Physiology. Students are expected to become actively engaged in the study of field biology during the first semester and participate in a wide range of learning activities such as nature guide making, river studies, tracking and tree identification. The second semester will be a Marine Science Program which begins with Oceanography and moves into investigations of marine life.

Field Biology will begin with a look at the origin of the universe and solar system and move onto a more detailed study of our blue planet. As we progress through our study of natural history and biodiversity, we will develop a deeper understanding of the evolution of life. Numerous field trips bring a much deeper understanding of the evolution of life. Second semester will be broken down into four basic categories of Oceanography, including a study of salinity, currents, tides and wave action. Coral Reef Ecology, will include a study of the symbiotic relationship between alga and coral animal with a specific focus on the natural history of species inhabiting the Florida Keys, Fisheries Biology, will involve a study of cartilaginous and bony fish with a focus on the natural history of species inhabiting the Florida Keys and Current Issues, including environmental issues such as global warming, water pollution, over-fishing, invasive species and more.

Ultimately, students will build a foundation that will help them to think more critically of our influences on earth and our place in the biosphere. Advanced credit is available on an individual basis.

## **SCI300            PHYSICS**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Prerequisite: Successful completion of Algebra 1**

Physics is for those students who do not plan to go on in the fields of science, medicine or engineering. It is for students who wish to view nature more perceptively without the fear of difficult mathematics. This course is primarily a qualitative study of the central concepts of physics, which relate to things and events that are familiar in our everyday world. The major topics studied in this course includes: Mechanics, Thermodynamics, Properties of Matter, Sound and Light, Electricity and Magnetism, and Atomic and Nuclear Physics

## **SCI310            ADVANCED PHYSICS**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Pre-requisite: 80 or better in Algebra 1**

Advanced Physics is for students who are interested in careers in the science related fields and/or are planning to continue taking science in college. The course stresses the role of mathematics in the scientific process and provides a foundation to better understand the sciences as a whole. Major topics include: Mechanics, Thermodynamics, Properties of Matter, Waves, Sound and Light, Electricity and Magnetism, and Atomic and Nuclear Physics.

**An Independent Research Project is required of students enrolled in Advanced Physics.**

## **SCI410            ADVANCED CHEMISTRY**

**Full Year Course    Grades 11-12**

**5.00 Credits**

Advanced Chemistry is recommended for students considering science, medicine or engineering as a career. The course will continue to develop the relationship between mathematics and the sciences. Concept mastery, critical thinking, and problem solving skills will be stressed. Major topics include: Atomic Structure, Periodicity, Chemical Bonding, Chemical reactions, Stoichiometry, Kinetic Theory of Gases, Solutions, Acids & Bases, Equilibrium & Kinetics, Thermo chemistry, and Redox Reactions. An Independent Research Project is required of students enrolled in Advanced Chemistry.

## **SCI650            ANATOMY & PHYSIOLOGY**

**Full Year Course    Grades 11-12**

**5.00 Credits**

Anatomy & Physiology will be offered on an alternating schedule with Field and Marine biology and is an introduction to the fundamental terminology and concepts of anatomy and physiology. This course is for students who plan to go on in the fields of science or health. The course stresses the major concepts and principles important to understanding the human body. An Independent Research Project is required of students enrolled in Anatomy & Physiology.

## **SCI675            PLANTS & THE ENVIRONMENT**

**Full Year Course    Grades 11-12**

**5.00 Credits**

Plants & the Environment is a combination of environmental science and botany that uses plants as a tool to explore ecological relationships. Students will work cooperatively in research, laboratory work and projects. The course stresses the ecological principles necessary to make informed decisions on related environmental issues. Major topics include: Plant structure and function, ecology, and propagation. Topical environmental issues will be explored, such as global warming, invasive species, and acid rain.

Students will be expected to take part in the Envirothon, a state-wide environmental competition that requires investigative and communication skills that are based on an environmental concern of the local community.

## **SCI805            AQUACULTURE**

**Full Year Course    Grades 11-12**

**5.00 Credits**

**Prerequisite: none.**

This new elective in 2009-2010 will introduce students to the field of aquaculture. Students will learn to synthesize information relating to the successful rearing of aquatic organisms under controlled conditions. Topics include: hydroponics (producing food in water environment), reef aquaculture, indoor rearing techniques of regional aquaculture organisms, water quality and management, dissolved oxygen, pH, and ammonia, nutrition, harvest and transport, disease prevention, diagnosis, and treatment.

Current issues include environmental issues such as, water pollution, over-fishing, aquaculture, coral propagation and more. Each student will be expected to develop an independent research project culminating in a collection of data and presentation of findings. GHS will have an aquaculture research lab where students can undertake very interesting research projects.

## **EXPANSION OPPORTUNITIES:**

**Students can expand their interest in science in a variety ways, including college courses, online courses, and independent studies. We want students to explore science to the greatest degree possible and according to their emerging interests.**

**Below is a sampling of Science courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition programs:**

Physical Geology	Human Systems
Historical Geology	Introduction to Environmental Science
Valley Geology	Freshwater Ecology
Introduction to Oceanology	Introductory Horticulture
Survey of Oceanography	Pathology
Zoology	Human Anatomy and Physiology
Botany	Microbiology
Ecology	Human Path physiology
Natural History	Interpretation of Diagnostic Laboratory Tests

**Below is a sampling of online courses we anticipate being available during 2009/2010**

Advanced Topics in Chemistry	Astronomy Basics
Animal Behavior and Zoology	Basic Chemistry Summer Offering
AP Biology	Bioethics Symposium
AP Environmental Science	Biotechnology
AP Physics	Chemicals of Civilization

**Self-Designed Independent Research opportunities are available for students on an individual basis with administrative approval. Particularly in the area of science, students can design independent research projects and complete these with supervision, for credit.**

# HISTORY/SOCIAL SCIENCES STUDIES

## **SST199 WORLD HISTORY**

**Full Year Course Grade 9**

**5.00 Credits**

This 9<sup>th</sup> grade required course begins with the Enlightenment period and the American Revolution and goes through the attack on 9/11.

Students study at length the Age of Revolution (American and French) and the Russian Revolution with emphasis on the similarities and the differences that exist among the three events.

In addition, the Industrial Revolution is studied in depth with heavy emphasis on its development and its many consequences and how this changed the world. Students study both the positive and negative impact of the Industrial Revolution with regard to labor, the environment, the economy in industrial and developing nations.

Students will also examine the causes and effects of the rise of dictatorships in Europe and Asia, the economic collapse in the 1920 and 1930s, World War I, World War II, and the Cold War – including Korea and Vietnam.

## **SST316 U.S. HISTORY I**

**Full Year Course Grade 10**

**5.00 Credits**

**Colonial period through Reconstruction**

Students examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students study the basic framework of American democracy and the basic concepts of American government, as well as America's westward expansion, the establishment of political parties, economic and social change, sectional conflict, the Civil War, and Reconstruction.

## **SST319 ADVANCED U.S. HISTORY I**

**Full Year Course Grade 10**

**5.00 Credits**

Students electing to enroll in Advanced U.S. History I will engage in more rigorous document analysis, primary document analysis, essay writing, and critical and evaluative thinking skills.

Advanced U.S. History I is required for students who wish to enroll in either Advanced U.S. II or Advanced Placement U.S. History in grade 11.

## **SST317 U. S. HISTORY II**

**Full Year Course Grade 11**

**5.00 Credits**

**Industrial Revolution to the present**

In U. S. History II, students analyze the causes and consequences of the Industrial Revolution and America's growing role in international relations. Students study the goals and accomplishments of the Progressive movement and the New Deal. Students also learn about the various factors that led to the United States' entry into World War I and World War II as well as the consequences of World War II for American life. Finally, students study the causes and course of the Cold War, important economic and political changes during the Cold War, such as the Civil Rights movement, and recent events and trends that have shaped modern-day America.

## **SST508 AP U.S. HISTORY**

**Full Year Course Grade 11**

**5.00 Credits**

Advanced Placement U.S. History is an intensive survey course in which students study American history from the colonial era to the present. The course outline is based on the College Board AP course description. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. Throughout the year students will be exposed to DBQs (document-based questions) given in former AP U.S. History tests, conduct research, and develop analytical skills necessary for the interpretation of historical materials.

**Taking the AP exam is mandatory.**

## **SST725 SOCIOLOGY/PSYCHOLOGY**

**Semester Course Grades 10-12**

**2.50 Credits**

This class will explore who you are and why. Sociology is the study of people, how they act, react, and interact in both their everyday lives and under extraordinary circumstances. As students learn about others, they will also learn how they fit into social contexts such as groups, neighborhoods, cities or whole societies.

Psychology is the study of behavior and mental processes. Students will study a wide range of psychological topics.

## **SST731 THE WORLD AT WAR**

**Semester Course Grades 9-12**

**2.50 Credits**

In this course, we will study in-depth the causes and effects of World War 1 and World War II. Some of the topics covered will be colonialism, balance of power, alliance systems, and impact of the industrial revolution on warfare, Militarism, Nationalism and Fascism/Nazism. We will bring the course to a close by looking at the beginning stages of the Cold War.

## **SST734 LAW**

**Semester Course Grades 9-12**

**2.50 Credits**

This course is designed to introduce students to the legal system in the United States. An emphasis would be placed on knowing your rights. Area courts would be visited which might include field trips to District, Superior, and Housing Court. Law officials would be guest speakers (lawyers, judges, police, etc.). The course would cover the history of law in America, the constitution, the legislative process, judicial system and the penal system. Students would be introduced to civil and criminal law.

The course is designed to provide knowledge and practical application. The entire foundation of American society is built upon the legal system and this course would provide knowledge about the law from misdemeanors to felonies, from District Court to the Supreme Court.

## **SST735 FEMALE IN THE 21ST CENTURY**

**Semester Course Grades 10-12**

**2.50 Credits**

This course covers milestones in women's history, their roles as history-shapers, the challenges they have faced, and the progress they have achieved. It highlights the lives and work of an extremely diverse group of local women whom students will interview, in class, throughout the semester. We will also participate in an outdoor skills day run by Greenfield Community College's Outdoor Leadership Program.

## **SST785 ETHNIC STUDIES**

**Semester Course**    **Grades 10-12**

**2.50 Credits**

The course will concentrate on immigration into Colonial America, the massive migration of Europeans into the United States during the late 19th century and early 20th century, the migration of Asians and Latin Americans into the United States during the 20th century and the large number of illegal immigrants entering the country in recent years and today.

The course will examine the push and pull factors that resulted in the many ethnic groups that currently make up the population of the United States, their cultural traits including language and religion and, how each group has assimilated, or not assimilated into American society. Of particular interest will be their many contributions to our country.

## **SST786 GEO-POLITICAL STUDIES**

**Semester Course**    **Grades 10-12**

**2.50 Credits**

This course is designed to combine place name Geography with the various political systems that exist across the world. The course is not designed to examine physical geographic and topographic features unless each has contributed to a nation's political make-up.

In particular, the course will examine and compare federal systems of government such as in the United States, Parliamentary systems such as in Great Britain, communism in Russia, China and Cuba and socialism such as in Sweden. In addition, the political ideas of Enlightenment thinkers and philosophers such as but not limited to Rousseau, Locke, Hobbes, Voltaire and Smith will be explored.

Considerable map work will be done.

## **SST738 CULTURAL ANTHROPOLOGY**

**Semester Course**    **Grades 10-12**

**2.50 Credits**

Do you like to travel? So do cultural anthropologists. One of five fields of anthropology, cultural anthropology examines culture among and between different people of all ages in various parts of the world. Learn to observe human behavior in art, dance, textiles, music, culinary arts, festivals, childrearing practices, gender and politics as part of "field work." This elective is new in 2009-2010.

## **SST726 ECONOMICS**

**Semester Course**    **Grades 9-12**

**2.50 Credits**

Students will experience a course similar to that of an introduction to micro and macroeconomics at the college level. Topics include different economic systems, the stock market, career research, credit, the Federal Reserve, insurance, personal banking, financing a home, buying a car, estate planning and success planning.

## **SST729 RIGHTS, REASONS, AND REBELLION**

**Semester Course**    **Grades 10-12**

**2.50 Credits**

This course will focus on the struggles inherent in creating and maintaining a democracy. Students will study the Constitution and Bill of Rights as the cornerstone of a democracy and view ways in which each has been both challenged and upheld. Through a close study of historical and contemporary events and issues, students will examine; who has rights and why; divisions of power based on class, race, age, gender, religion and ethnicity; and the reasons for and effect of rebellion.

## **EXPANSION OPPORTUNITIES:**

**A Sampling of History Courses offered through our collaboration with Greenfield Community College through our Dual Enrollment and Early Transition programs:**

Women in American History  
Western Civilization to 1500 A.D.  
History of the American People  
American History of the Valley  
China and Japan: A Cultural History

The Pacific Century  
History of African-American Peoples  
Latin American History  
Introduction to Modern Africa

**Courses available through online course offerings we anticipate for 2009/2010:**

American Foreign Policy  
American Multiculturalism  
Economics  
Government and Politics

Art and Ideas: The Best of Western Culture  
Constitutional Law  
Psychology  
Criminology

**Self-Designed Independent Research opportunities are available for students on an individual basis with administrative approval.**

# WELLNESS EDUCATION

Wellness Education is a required part of the total curriculum at Greenfield High School. All students must successfully complete four years of Wellness Education and two semesters of Health to graduate.

## **HEA101 HEALTH EDUCATION A**

**Semester Course Grade 9 2.50 Credits**

Health education meets everyday for one semester course and is a graduation requirement at Greenfield High School. Health Education 100 follows the new State Frameworks for Health Education in Massachusetts. Units of instruction include: Self responsibility for Wellness, Systems of the Body, Violence Prevention, First Aid and Safety, Nutrition and Healthful Eating, Communicable Diseases, Cardiovascular Disease and Cancer, Chronic Health Problems, Fitness, Sexuality Education Conception to Adulthood.

## **HPE618 WELLNESS 9/10**

**Semester Course Grades 9-10 2.50 Credits**

Wellness 9/10 will include a variety of team sports, individual and dual sports as well as educating students in a physical fitness program which will carry on into adult life.

## **HEA105 HEALTH EDUCATION B**

**Semester Course Grade 10 2.50 Credits**

Health education meets every day for one semester course and is a graduation requirement at Greenfield High School. Health Education 200 follows the new State Frameworks for Health Education in Massachusetts. Units of instruction include: Mental Health, Personality, Mental Illness, Stress, Death and Dying, Drugs, Alcohol, Tobacco, Personal Safety, Violence Prevention, Anger Management, Community and World Health, Environmental Health, HIV/AIDS, Sexuality Education and Pregnancy.

## **HPE820 WELLNESS 11/12**

**Semester Course Grades 11-12 2.50 Credits**

Wellness 11/12 will include a variety of team sports, individual and dual sports as well as educating students in a physical fitness program which will carry on into adult life.

## **HPE635 WEIGHT TRAINING**

**Semester Course Grades 9-12 2.50 Credits**

Weight Training will include a variety of strength, speed, cardio respiratory fitness and flexibility. The class will also teach proper spotting and lifting techniques. The students will be in the Bigger, Faster, Stronger fitness program which will carry on as a lifetime skill.

## **HPE640 YOGA AND PILATES**

**Semester Course Grades 9-12 2.50 Credits**

This course explores Yoga, an ancient system of breathing practices, physical exercises and postures, and meditation intended to integrate the practitioner's body, mind, and spirit. Pilates is an exercise regimen that elongates and strengthens the muscles. By correcting posture, Pilates can strengthen your body against future injuries.

## **ENR100 CULINARY ARTS**

**Semester Course Grades 9-12**

**2.50 Credits**

Every student should know how to prepare healthy and delicious food for self, friends, and family. In culinary arts, students will learn about foods, the science involved in cooking foods, and practice food and meal preparation. You will learn about knife techniques, safe-food handling and proper use of kitchen equipment. The importance of good nutrition will be incorporated into the foods prepared. And you'll learn about new foods you may not have tried before. The culinary arts lab has been restored and is re-opening in 2009-2010.

## **ENR101 HEALTH CAREER EXPLORATION**

**Semester Course Grades 9-12**

**2.50 Credits**

Introduction to Health Exploration is designed to introduce the student to the field of health care and provide an opportunity to explore various health occupations. Through research, classroom presentations, guest speakers and field trip(s) find out if a health career is for you! An introduction to medical terminology, medical abbreviations and ethical/legal issues in health care will also be examined.

### **EXPANSION OPPORTUNITIES:**

**Many students are interested in health and nutrition and all the emerging fields of study and professions in these areas. The topics of study are both practical and immediately useful in our lives.**

**Students can expand their art interests through college courses, on-line courses, and/or independent studies for credit.**

**Below is a sampling of courses that might be available through area colleges and/or through our collaboration with Greenfield Community College.**

Indian Cooking  
Mediterranean Cooking  
Bread Baking

The Frugal Gourmet  
Asian Cooking  
Prevention of Degenerative Disease

#### **Courses that may also be available through on-line course offerings in 2009/2010:**

Understanding Alzheimer's  
Understanding Diabetes

Child Nutrition  
Careers in Health and Nutrition

**Wellness education is an area of high interest to students and adults alike. We need to learn so much in this area to enjoy life, learn to take care of our bodies, and learn how to be more independent in the home. A wide variety of Self-Designed Independent studies are available for students on an individual basis with administrative approval.**

# WORLD LANGUAGE

Language and communication are at the heart of human experience. The Greenfield High School World Language program helps students to be linguistically and culturally equipped to communicate successfully in a pluralistic American society and abroad. As you learn to communicate in another language, you will gain knowledge and understanding of other cultures. Although World Language is not currently required for graduation from GHS, we strongly recommend that all students seriously consider studying one. The minimum admissions standards for Massachusetts state colleges require at least two years study of one language. Many other colleges require three years.

## **WLA100      FRENCH 1**

**Full Year Course      Grades 9-12**

**5.00 Credits**

In this course, students will begin their study of the French language and the cultures, history, and geography of the French-speaking world. Students will learn basic conversational patterns for use in everyday situations. The use of audio and video materials will help strengthen listening skills and promote conversational ability. Work in the computer lab on the textbook website will supplement reading and writing practice. French 1 students will begin a developmental reading and writing program. By the end of the course they should be able to discuss simple topics such as family and friends, introductions, clothing, school, and favorite activities.

## **WLA200      FRENCH 2**

**Full Year Course      Grades 9-12**

**5.00 Credits**

This course follows the same format as French 1. Speaking ability, listening comprehension and pronunciation skills are reinforced through the use of audio and video materials, daily class participation and small group work. Students are expected to respond in French, and to build and expand conversational skills. Students will continue their work in developmental reading and writing. The video program reinforces an understanding of the language, cultures, and geography of the French-speaking world.

## **WLA300      FRENCH 3**

**Full Year Course      Grades 10-12**

**5.00 Credits**

**Prerequisite: 75 or better in French 2**

French 3 is designed for the advanced foreign language student who wishes to improve and build upon those skills learned during the first two years of language study. Students will participate in situational conversations to improve their communicative skills in the present, the past, and the future. They will continue to improve their writing ability through a variety of assignments. The use of audio and video programs will reinforce pronunciation and listening skills. Students will continue to demonstrate an understanding of francophone culture through comparison with their own.

**WLA400            FRENCH 4****Full Year Course    Grades 11-12****5.00 Credits****Prerequisite: 75 or better in French 3**

French 4 is designed for advanced students who wish to refine and expand their communication skills in French. Students will continue their study of the language using a variety of instructional materials, which may include advertisements, magazine and newspaper articles, essays, poems, short stories and short novels, as well as audio and video materials. Students will learn thematic vocabulary and linguistic structures in context.

**WLA500            AP FRENCH 5****Full Year Course    Grade 12****5.00 Credits****Prerequisite: 78 or better in French 4**

The goal of AP French 5 is to prepare students for the Advanced Placement French Language Exam given in May. The course provides a variety of opportunities to help students further develop conversational ability and writing proficiency in French and to learn more about francophone cultures. Class activities will be based on films and on authentic materials such as short stories, essays, poems, and articles. Students will study advanced linguistic structures and idiomatic vocabulary. Students will take part in discussions, make oral presentations and write a weekly journal in French. The AP exam is required.

**WLA101            SPANISH 1****Full Year Course    Grades 9-12****5.00 Credits**

In this course, students will begin their study of the Spanish language and the cultures, history, and geography of the Spanish-speaking world. Students will learn basic conversational patterns for use in everyday situations. The use of audio and video materials will help strengthen listening skills and promote conversational ability. Work in the computer lab on the textbook website will supplement reading and writing practice. Spanish 1 students will begin a developmental reading and writing program. By the end of the course they should be able to discuss simple topics such as family and friends, introductions, clothing, school, and favorite activities.

**WLA201            SPANISH 2****Full Year Course    Grades 9-12****5.00 Credits**

This course follows the same format as Spanish 1. Speaking ability, listening comprehension and pronunciation skills are reinforced through the use of audio and video materials, daily class participation and small group work. Students are expected to respond in Spanish whenever possible, and to build and expand conversational skills. Students will continue their work in developmental reading and writing. The video program reinforces an understanding of the language, cultures, and geography of the Spanish-speaking world.

**WLA301**                      **SPANISH 3**  
**Full Year**                      **Grades 10-12**                      **5.00 Credits**  
**Prerequisite: 75 or better in Spanish 2**

Spanish 3 is designed for the advanced foreign language student who wishes to improve and build upon those skills learned during the first two years of language study. Students will participate in situational conversations to improve their communicative skills in the present, the past, and the future. They will continue to improve their writing ability through a variety of assignments. The use of audio and video programs will reinforce pronunciation and listening skills. Students will continue to demonstrate an understanding of Hispanic culture through comparison with their own.

**WLA401**                      **SPANISH 4**  
**Full Year**                      **Grades 11-12**                      **5.00 Credits**  
**Prerequisite: 75 or better in Spanish 3**

Spanish 4 is designed for advanced students who wish to refine and expand their communication skills in Spanish. Students will continue their study of the language using a variety of instructional materials, which may include advertisements, magazine and newspaper articles, essays, short stories and short novels, as well as audio and video materials. Students will learn thematic vocabulary and linguistic structures in context.

**WLA501**                      **AP SPANISH 5**  
**Full Year**                      **Grade 12**                      **5.00 Credits**  
**Prerequisite: 78 or better in Spanish 4**

The Advanced Placement Spanish course covers the equivalent of a third year college course in Spanish. The course is conducted almost entirely in Spanish. Students are expected to try to use Spanish exclusively in the classroom. The course stresses oral skills, composition and grammar, and the integration of all four communication skills (listening, speaking, reading and writing) with the use of authentic materials. Practice in the four modalities will take a variety of forms, but will include practice with actual AP exams, materials designed to provide practice with the AP format, and frequent use of the AP grading rubrics to familiarize students with AP expectations. **The AP exam is required.**

**WLA601**                      **GERMAN**  
**Semester Course**                      **Grade 9 - 12**                      **2.50 Credits**

Basic German is an introductory course in the German language and culture. The course is designed to familiarize students with basic German conversational language and how and where the German language is used today. Students will be introduced to the geography and major cities of Germany and some of the country's history. This will be a new elective and can be either full-year or half-year, depending on student interest. This is not a World Language intended to be offered through advanced levels.

**WLA**                      **ROMANIAN**  
**Semester Course**                      **Grades 9-12**                      **2.50 Credits**

Basic Romanian is an introductory course on the Romanian language. The course is designed to familiarize students with the Romanian language and culture with emphasis on everyday conversation. We are offering this course because we have students who are fluent in Romanian and many members of our community who share this background. This is a new elective for 2009-2010.

# TECHNICAL EDUCATION STUDIES

## TECHNOLOGY/ENGINEERING

The goal of Technology/Engineering is to prepare all students for careers and advanced technical training programs by equipping them with technological skills. Regardless of students' goals, whether in science, business, trades or other careers, each student will be taught essential elements of occupational readiness, consumer awareness, and personal enrichment.

### **TEC337 CONSTRUCTION**

**Semester Course Grades 9-12 2.50 Credits**

An activity based introduction to the fundamentals of residential and commercial building construction. Students learn the geometry theory governing design and construction and apply these principles while constructing a shed or small building. Commonly used materials are introduced and evaluated in terms of cost, ease of use, sustainability, and impact on the living environment. Safe hand and portable power tools use is taught along with safe working habits common to working with groups of workers. A basic understanding of geometry is helpful but not required.

### **SUS300 GREEN/SUSTAINABLE CONSTRUCTION TECHNOLOGY**

**Semester Course Grades 9-12 2.50 Credits**

**Pre-requisites: As this course builds on past material covered in Construction Technology, it is strongly encouraged that these courses be taken in sequence. Algebra and geometry are also encouraged to better grasp the concepts and analyses explored.**

An activity based exploratory semester length course focusing on “green/sustainable construction technology. This course identifies emerging technologies related to the construction industries which prioritize sustainability, environmental considerations, and the use of renewable and or recyclable materials. Techniques used to reduce energy and use will be explored, such as air sealing, solar orientation, thermal mass, fenestration, and environmental landscaping. New and existing materials will be examined and analyzed for their environmental impact, both in the pre- and post consumer phase, including reuse of waste products and cost of disposal.

### **SUS303 POWER AND TRANSPORTATION**

**Semester Course Grades 9-12 2.50 Credits**

This course is designed to provide an understanding of fuel, electrical, braking and emission control systems; their construction, function and operation. Lab activities will include exploration of these systems, completing minor servicing and periodic maintenance.

## **SUS310 SUSTAINABLE POWER AND TRANSPORTATION**

**Semester Course**    **Grades 9-12**

**2.50 Credits**

**Pre-requisites:** This course builds on knowledge learned in Power and Transportation. It is strongly encouraged that these courses be taken in sequence. Algebra is very helpful in students' understanding of conversion and conservation formulas.

An activity based semester length course focusing on current and emerging sustainable sources of power as they affect transportation. Students examine the effects of changing conditions of fuel sources on transportation and home and business finances. Building on previous knowledge gained in Power and Transportation, they explore sustainable transportation modes including electric cars and trains, and hydrogen fueled busses, and flex fuel cars and trucks. Power conversion and conservation principles will be reviewed and reinforced through experiments with changing fuel sources on conventional engines as well as generation of new fuel types such as but not limited to ethanol, solar powered electric and hydrogen.

## **TEC338 WOODWORKING**

**Semester Course**    **Grades 9-12**

**2.50 Credits**

An activity based semester length introduction to classic woodworking skills and projects. Safe and efficient stationary power tool use, hand tool alternatives to power tools, cabinet design and construction and finishing are some of the topics covered in this class. Students progress from simple introductory exercises to more complex projects involving machine joinery, carving, and molding. This is a good beginning class for students with an interest in woodworking/construction. An understanding of basic algebra is helpful.

## **TEC340 COMPUTER-AIDED DRAWING (CAD)**

**Semester Course**    **Grades 9-12**

**2.50 Credits**

This is a foundation course useful to all other classes in the Technology Program of Studies. Computer Aided Drafting introduces the student to graphic expression of technical details and ideas. From drawing a simple line, circle or polygon to three dimensional views of objects and buildings this course teaches all the basic skills needed for a career in CAD. This is the most in-demand, employable skill in the area and students receive college credit for a grade of 87 or higher articulated through Greenfield Community College. A solid foundation of geometry makes this course much easier and is recommended.

## **TEC343 MANUFACTURING**

**Semester Course**    **Grades 9-12**

**2.50 Credits**

This is an activity-based semester length study of the basic processes of manufacturing. The medium in this class is sheet metal and light gauge steel. Students explore using hand and stationary tools in the manufacturing of ornamental products such as lamps, sconce, jewelry, window boxes, etc. The safe use of tools such as drill press, shears, pan brake, stationary bender, welders and torches are introduced and practiced. This is a good foundation of skills for students interested in engineering, science, and design.

# GUIDANCE DEPARTMENT

## **BUS402            SCHOOL-TO-CAREER A**

**Semester Course    Grade 12**

**2.50 Credits**

The School-to-Career Program is for the purpose of gaining work experience, acquiring training, building skills, and assisting students with career direction. This experience is an asset to students regarding future work experiences and can be added to resumes and portfolios. The program is aimed at students who intend to enter the workforce immediately upon graduation as well as students who intend to pursue further training and education. In short, School-to-Career enables students to participate in a performance-based education and training program that helps prepare them for high-skill, high-wage careers and increases their opportunities for post-secondary education.

## **BUS403            SCHOOL-TO-CAREER B**

**Semester Course    Grade 12**

**2.50 Credits**

The School-to-Career Program is for the purpose of gaining work experience, acquiring training, building skills, and assisting students with career direction. This experience is an asset to students regarding future work experiences and can be added to resumes and portfolios. The program is aimed at students who intend to enter the workforce immediately upon graduation as well as students who intend to pursue further training and education. In short, School-to-Career enables students to participate in a performance-based education and training program that helps prepare them for high-skill, high-wage careers and increases their opportunities for post-secondary education.

## **INDEPENDENT STUDIES**

**Semester Courses    Grades 11 –12**

**2.50 Credits**

Independent Study opportunities are available in every department. Students who have completed a department's sequence of courses and want to work independently at a more advanced level are encouraged to seek out a teacher to supervise them in an independent study. No students will be allowed to sign up for an independent study as a course selection. No teacher will be allowed to take a student for an independent study if a student wants to take the course being offered that period. Students who want an independent study need to see their guidance counselor for an independent study contract.

# ENGLISH AS A SECOND LANGUAGE

## **ELL101 & ELL102 BEGINNING**

**Semester Course    Grades 9-12**

**Both Courses = 5.00 Credits**

This course is to help newly arrived students learn the basics of the English language. It is designed for students who have studied less than six months of English in the United States or for students who arrive mid-semester. Emphasis is on vocabulary acquisition and oral proficiency.

## **ELL201 & ELL202 INTERMEDIATE**

**Semester Course    Grades 9-12**

**Both Courses = 5.00 Credits**

This course is designed for students who have completed Introduction to English (ESL) or who have mastered the basic skills for English. Students will learn to write in complete sentences, keep a journal, learn about fundamentals of punctuation and learn more spelling patterns as well as read short novel.

## **ELL300 & ELL301 ADVANCED**

**Semester Course    Grades 9-12**

**Both Courses = 5.00 Credits**

This class is designed for the more fluent English speaker who has or is almost ready to take regular English courses. Students will read short stories and short novels, practice writing indifferent genres (comparison/contrast; expository; business letter; book and movie review; etc.), and engage in debates on current issues.

# UNIQUE PROGRAMS

## ESSENTIAL SKILLS PROGRAM

This program is designed for students who benefit from a primary focus on the development of life skills. All academic subjects are addressed in the context of authentic life skills. Class activities incorporate practice with personal care, social skills, daily living, communication and vocational exploration. A major goal for all students in the Essential Skills Program is to increase independence. Essential Skills programs are supported by a team of professionals that includes a special educator, paraprofessionals, psychologist, speech pathologist, occupational therapist, physical therapist, and autism specialist. A team meeting is needed to enroll in the program.

### **INT262/S1 & INT263/S2**

Semester Course      Grades 9-12

### **E.S. LIFE SKILLS**

2.50 Credits Per Course

### **INT250/S1 & INT251/S2**

Semester Course      Grades 9-12

### **E.S. MATH**

2.50 Credits Per Course

### **INT256/S1 & INT257/S2**

Semester Course      Grades 9-12

### **E.S. ENGLISH**

2.50 Credits Per Course

### **INT240**

Semester One          Grades 9-12

### **E.S. CURRENT EVENTS**

2.50 Credits

### **INT255/S1 & INT264/S2**

Semester Course      Grades 9-12

### **E.S. LIFE SCIENCE**

2.50 Credits Per Course

# LEARNING CENTER

## **ACA105/S1 & ACA106/S2      ACADEMIC SUPPORT**

**Semester Course      Grades 9–12**

**2.50 Credits Per Course**

The intent of this special education class is to help students achieve academic success in all of their classes in the general education (GE) curriculum. Students attending this class have been identified as individuals with unique learning style defined by their Individualized Educational Plan (IEP). Participation in this class provides each student with the opportunity to receive individual assistance in an attempt to successfully complete assignments from his/her GE class schedule. This class provides each student with a routine placement where a predictable amount of time is available and is built-in to the student's schedule allowing for structured time to work on assignments during the school day.

## **INT115/S1 & INT116/S2      DEVELOPMENTAL READING**

**Semester Course      Grades 9–12**

**2.50 Credits Per Course**

The aim of this course is to accelerate students' competencies in their literacy development. The primary focus will be on the usage and application of decoding and comprehension strategies that enable students to construct meaning from a variety of written texts effectively and efficiently. Assessments will identify areas of literacy strengths and weaknesses for an individualized approach to instruction in the use of semantic, syntactic and grapho-phonemic cues to improve understanding of print. Students will use a variety of fiction and nonfiction texts, in addition to materials from their general academic courses.

## **INT120/S1 & INT121/S2      DEVELOPMENTAL MATHEMATICS**

**Semester Course      Grades 9–12**

**2.50 Credits Per Course**

Developmental Mathematics is a special education course intended to help students develop their skills in mathematics as they pertain to each student's Individualized Education Program (IEP). Addressing a student's area(s) of weakness in math, in addition to providing assistance with his or her general education math class requirements, will maximize the relevance of this class by allowing the opportunity for a student's educational progress in the general education curriculum to be achieved.

## **INT100/S1 & INT101/S2      DEVELOPMENTAL ENGLISH**

**Semester Course      Grades 9–12**

**2.50 Credits Per Course**

Developmental Language Arts is a special education course designed to provide students with the opportunity to improve their language and English skills based on each student's Individualized Education Program (IEP). By using a student's general education assignments and requirements, in addition to focusing on a student's given strengths and weaknesses, this class gives each student the environment to increase his or her general educational progress as well as developing the necessary skills that are fundamental to the learning process.

# ALTERNATIVE EDUCATION PROGRAM

This program is creative, interesting, and dedicated to making sure each student who enters its doors find success in high school and reach graduation. The course is limited to 20 students/year who work as a team together with the same guiding program coordinators and different subject teacher. Most of the courses are taught in a way that is highly interesting. The project-based and goal-oriented program is designed for students who are at risk of dropping out of high school and offers a safe, positive, and supportive environment which is motivating

Students who are apt to find this program appropriate may have any of the following characteristics: prior course failures, poor relationships with teachers and peers, inconsistent attendance, difficulty finding interest or purpose in school, not having a clear direction for or future education goal. Interest surveys, math and reading screenings, goal-setting, and other strategies are used along with an interview process to create an individual plan for each student to achieve success. The components include core academics, internships, community service projects, enrichment activities, and physical/health education. Essential to the program is the smaller teacher-student ratio with mentoring and individual academic attention as a component to maximize learning.

## **Life Skills/Study Skills**

**Full Year**

**Grades 9-12**

**5.00 Credits**

This course comprises of the physical education and health component requirements. In addition, the course provides enrichment activities such as outdoor adventure, cooking, textiles, financial planning, career concepts, social and communication skill development. Academic support and organizational skills are also provided during this course. A therapeutic component is included and essential to address the underlying emotional needs of at-risk students.

## **Service Learning**

**Full Year**

**Grades 9-12**

**5.00 Credits**

This course focuses on internship opportunities for eligible students that allow them to work for local community organizations and develop life skills to help them be productive members of their community. Internship supervisors provide feedback and direction to students in the workplace. Students develop a year-end project based on their internship experience. Collaboration with students and program staff generates community and service learning projects for a hands-on, non-traditional strategy for learning and experiencing civic responsibility.

# TRANSITION PROGRAM

This program supports students whose academic and social/emotional needs cannot be met with a full-time schedule of general education classes. Students are enrolled in a supported general education math class, and take the remainder of their courses within the Transition Program, or in a combination of Transition Program and general education classes as appropriate. The program utilizes a daily point system to build student success. Program staff includes a special educator and paraprofessional, and regular access to a psychologist and behavior analyst as needed. A team meeting is needed to enroll in this program.

## **TRA101/S1 & TRA102/S2**

Semester Course      Grades 9-12

## **SOCIAL STUDIES**

2.50 Credits Per Course

## **TRA105/S1 & TRA106/S2**

Semester Course      Grades 9-12

## **ENGLISH**

2.50 Credits Per Course

## **TRA905/S1 & TRA906/S2**

Semester Course      Grades 9-12

## **LIFE SKILLS**

2.50 Credits Per Course

## **TRA503**

Semester Course      Grades 9-10

## **HEALTH**

2.50 Credits

## **TRA907**

Semester Course      Grades 9-12

## **NUTRITION AND COOKING**

2.50 Credits

## **TRA171/S1 & TRA175/S2**

Semester Course      Grades 9-12

## **SCIENCE**

2.50 Credits Per Course

## **“Your 4 Year Plan”**

Semester 1	Grade 9	Semester 2
1.	1.	
2.	2.	
3.	3.	
4.	4.	
5.	5.	
6.	6.	
7.	7.	

Semester 1	Grade 10	Semester 2
1.	1.	
2.	2.	
3.	3.	
4.	4.	
5.	5.	
6.	6.	
7.	7.	

## “Your 4 Year Plan”

Semester 1	Grade 11	Semester 2
1.	1.	
2.	2.	
3.	3.	
4.	4.	
5.	5.	
6.	6.	
7.	7.	

Semester 1	Grade 12	Semester 2
1.	1.	
2.	2.	
3.	3.	
4.	4.	
5.	5.	
6.	6.	
7.	7.	