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March 2009

“George Stevens Academy is an independent high school located on the coast of Maine. Grounded in its traditions and commitment to the area’s small towns, the Academy is a caring educational community invested in meeting the needs of each student. The Academy offers a challenging, comprehensive program of studies that fosters intellectual inquiry and the pursuit of knowledge, inspires creativity, develops self-reliance, and prepares its graduates for a purposeful life in an ever-changing world.” GSA Mission, revised 2007

Dear George Stevens Academy Students,

The **2009-2010 Program of Studies** lists and describes the courses we are offering next year. We hope that you will use this booklet, along with the planning worksheet, to chart the next leg of your journey through high school.

As you know, GSA has a set of graduation requirements that every student must fulfill in order to receive a GSA diploma. On the following pages we have reprinted these requirements so that you and your advisor can be sure you are making good progress towards your diploma.

In addition to these core requirements, GSA offers an impressive array of electives that you can choose from to round out your education: courses that match interests you already have, as well as courses that invite you to explore areas you may not know much about yet. High school is a great time to begin taking ownership of your education: to challenge yourself to explore a new part of yourself, to strengthen weak or developing skills, to deepen your understanding of a subject that is already important to you, and to discover new areas of interest and passion.

Please study this booklet carefully, and ask for clarification if you have questions or cannot find a particular course you are looking for. Share this booklet with your parents, and talk with teachers and advisors as you review your options. As always, the Office of Faculty and Student Services is here to assist you in making the choices that are the best ones for you.

On behalf of the GSA teachers and administrative team,



John Greene
Headmaster



Bayard Brokaw
Academic Dean

GRADUATION REQUIREMENTS AND THE DIPLOMA

Students are encouraged to challenge themselves throughout their years at GSA by taking a rigorous course of study. Faculty advisors and the Office of Faculty and Student Services are available to students for assistance in preparing their schedules. GSA encourages every student to prepare for study beyond high school.

The George Stevens Academy diploma is conferred upon students who have satisfactorily met the requirements described below. Participation in the graduation ceremony is reserved for students who have met *all* graduation requirements at the time of graduation.

Minimum Credit & Distribution Requirements

4 credits of English

3 credits of Mathematics (*must* include two years of Algebra or higher level analytic math courses plus one year of geometry).

3 credits of Science

3 credits of Social Science (*must* include US History)

1 credit of Physical Education

1 credit of Fine Arts

½ credit of Health

6 ½ credits in electives

Demonstrated computer literacy competence

Total: 22 Credits plus basic Computer Literacy

All students are required to carry a minimum of five (5) academic credits each semester. The following courses may only be taken in addition to the five academic credits: Junior and Senior English support, Alternative Course Contracts, Physical Education, Physical Management.

The Headmaster must approve, in advance, alternative course contracts, independent study courses, or courses taken for credit outside George Stevens Academy.

HONORS POLICY

Most departments at GSA offer courses designated as “Honors.” Honors courses challenge students to pursue a subject more deeply, more intensively, and more rigorously than is normally possible in the College Prep (CP) sequence. Honors course enrollment policies are as follows:

- New (entering) students should consult with the Office of Faculty and Student Services about the appropriateness of an Honors course in their Personal Learning Plan.
- A student who is enrolled in an Honors course must achieve a final grade of 80 or better in order to enroll in the next appropriate Honors course in that department. (Exception: If the next appropriate course is an Honors-level course and no alternative non-Honors are available, a student may enroll in the Honors course without having achieved a grade of 80 or better.)
- A student who earns a final grade of 90 or better in a CP course may enroll in an Honors course in the next appropriate course in that department.
- A student who was eligible to take an Honors course, but who began the year in a non-honors course, may, during the first semester and with the teacher’s recommendation and administrative approval, move into the corresponding Honors course.

Please use this worksheet to organize your final course registration choices.

George Stevens Academy
Educational Plan for Academic & Extra-Curricular Activities

Name: _____ Advisor: _____

Academic Planning: Be sure to consult your “historic grades” (if applicable) and graduation requirements. Also, pay attention to prerequisite courses, including honors policy, before you sign up for classes.

Course	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English				
Math				
Science				
Social Studies				
Physical Education				
Health				
Foreign Language				
Computer Lit				
Elective				
Elective				
Elective				
Elective				
Elective				
Total Credits				

Extra-Curricular Planning:

9 th Grade	10 th Grade	11 th Grade	12 th Grade

PROGRAM OF STUDIES COURSE LISTINGS – 2009/2010

SECTION I – English

- 110 Introduction to Literature, 9, 1 credit, 1 year
- 111 English Foundations, 9, 1 credit, 1 year
- 115 Introduction to Literature Honors, 9, 1 credit, 1 year
- 120 British Literature, 10, 1 credit, 1 year, prerequisite 110, 115 or 111
- 122 English Foundations, 10, 1 credit, 1 year, prerequisite 111 or recommendation
- 125 British Literature Honors, 10, 1 credit, 1 year, prerequisite 115 or 110
- 131 American Literature, 11, ½ credit, 1 semester, prerequisite 120, 122 or 125
(coupled with a 150-155 topics course)
- 133 Junior English Support
- 134 Senior English Support
- 135 AP English Literature, 11, 1 credit, 1 year, prerequisite 125 or 120
- 141 World Literature/Rhetoric, 12, ½ credit, 1 semester, prerequisite 131 or 135 (coupled with a 150-155 topics course)
- 145 World Literature/Rhetoric Honors, 12, 1 credit, 1 year, prerequisite 135 or 131
- 150 Maine Writers, 11-12, ½ credit, 1 semester, prerequisite 120, 122 or 125
- 151 Journalism, 11-12, ½ credit, 1 semester, prerequisite 120, 122 or 125
- 152 Writing for TV and Film, 11-12, ½ credit, 1 semester, prerequisite 120, 122 or 125
- 155 Breaking the Code: Reading Across the Curriculum, 11-12, ½ credit, 1 semester, prerequisite 120, 122 or 125
- 173/174 Creative Writing, 9-12, 1 semester, ½ credit, or 2 semesters, 1 credit
(*Note: Qualifies as an elective, not as an 11th and 12th grade English credit.*)
- 180/181 ESL I, 9-12, 1 credit, 1 year (placement by SLEP/writing score)
- 182/183 ESL II, 9-12, 1 credit, 1 year (placement by SLEP/writing score)
- 185/186 ESL III, 9-12, 1 credit, 1 year (placement by SLEP/writing score)

SECTION II - Social Studies

- 210 Introduction to Social Science, 9, 1 credit, 1 year
- 211 Introduction to Social Science A, 9, 1 credit, 1 year
- 215 Introduction to Social Science Honors, 9, 1 credit, 1 year
- 220 World History, 10, 1 credit, 1 year, prerequisite 210/211/2 15
- 223 World History A, 10, 1 credit, 1 year, prerequisite 210/211
- 225 Western Civilization Honors, 10, 1 credit, 1 year, prerequisite 210/215
- 230 U.S. History, 11, 1 credit, 1 year, prerequisite 220/223/225
- 231 U.S. History A, 11, 1 credit, 1 year, prerequisite 220/223
- 265 AP U.S. History, 11, 1 credit, 1 year, prerequisite 220/225
- 238 From WWII to Vietnam, 12, ½ credit, 1 semester, prerequisite 230/231/2 65
- 246 Street Law, 11-12, ½ credit, 1 semester
- 248 Introduction to Psychology, 11-12, ½ credit, 1 semester
- 250 Philosophy, 11-12, ½ credit, 1 semester
- 255 AP Human Geography, 12, 1 credit, 1 year, prerequisite 230/265
- 261 The Holocaust, 11-12, ½ credit, 1 semester
- 264 Public Policy, 11-12, ½ credit, 1 semester

SECTION III - Math

- 310 Algebra I, 9-11, 1 credit, 1 year
- 313 Pre-Algebra, 9-10, 1 credit, 1 year
- 314 Algebra IA, 10-11, 1 credit, 1 year
- 315 Algebra I Honors, 9-10, 1 credit, 1 year
- 320 Geometry, 10-12, 1 credit, 1 year, prerequisite 310/314/315
- 323 Lab Geometry, 10-12, 1 credit, 1 year, prerequisite 310/314/315
- 325 Geometry Honors, 9-12, 1 credit, 1 year, prerequisite 310/315
- 329 Algebra IIA, 10-12, 1 credit, 1 year, prerequisite 314/310, co-requisite 320/323/325
- 330 Algebra II, 10-12, 1 credit, 1 year, prerequisite 310/314/315, co-requisite 320/323/325
- 335 Algebra II Honors, 10-12, 1 credit, 1 year, prerequisite 310/315, co-requisite 320/325
- 346 Analytic Geometry & Advanced Algebra, 11-12, ½ credit, 1 semester, prerequisite 330/335
- 347 Trigonometry 11-12; prerequisite 330/335
- 342 Advanced Applications of Finite Math I, 11-12, ½ credit, 1 semester, prerequisite 330/335
- 344 Elementary Statistics, 10-12, ½ credit, 1 semester, prerequisite 310/315
- 356 Analytic Geometry & Advanced Algebra Honors, 11-12, ½ credit, 1 semester, prerequisite 330/335
- 357 Honors Trigonometry 11-12; prerequisite 330/335
- 355 AP Statistics, 11-12, 1 credit, 1 year, prerequisite 330/335
- 365 AP Calculus AB Level, 12, 1 credit, 1 year, prerequisite 346/356 and 347/357
- 375 AP Calculus BC Level, 12, 1 credit, 1 year, prerequisite 346/356 and 347/357
- 326 Business Math, 10-12, 1 credit, 1 year

SECTION IV - Science

- 400 Exploring Earth Systems, 9, 1 credit, 1 year
- 401 Fundamentals of Earth Systems, 9, 1 credit, 1 year
- 405 Exploring Earth Systems Honors, 9, 1 credit, 1 year, co-requisite *must be enrolled in Algebra I Honors or Geometry Honors*
- 452 Fundamentals of Biology, 10-11, 1 credit, 1 year, prerequisite 400/401
- 420 Biology College Prep, 10-11, 1 credit, 1 year, prerequisite 401/405
- 425 Biology Honors, 10, 1 credit, 1 year, prerequisite 401/405
- 436/438 Forensics I & II, 11-12, ½ credit, 1 semester or 1 credit, 2 semesters, prerequisite 420/425/452
- 443 Fundamentals of Chemistry, 11-12, 1 credit, 1 year, prerequisite 420/452
- 442 World of Chemistry College Prep, 11-12, 1 credit, 1 year, prerequisite 420/425 and Algebra I
- 445 Chemistry Honors, 11-12, 1 credit, 1 year, prerequisite 420/425 & Algebra I
- 454 Science through Technology, 11-12, 1 credit, 1 year, prerequisite 420/452
- 458/459 The Maine Environment I & II, 11-12, ½ credit, 1 semester or 1 credit, 2 semesters, prerequisite 420/425

Note: The following courses alternate years and will not be offered next year. They are, as follows...

- 430 Conceptual Physics, 11-12, 1 credit, 1 year, prerequisite 420/452 and Algebra I
- 433 Physics Through Technology, 11-12, 1 credit, 1 year, prerequisite Algebra I
- 434 Modeling Physics College Prep, 11-12, 1 credit, 1 year, prerequisite 420/425 and enrolled in Algebra II
- 435 Modeling Physics Honors, 11-12, 1 credit, 1 year, prerequisite 420/425 and enrolled in Algebra II
- 437/439 Marine Science I & II, 11-12, ½ credit, 1 semester or 1 credit, 2 semesters, prerequisite 420/425
- 465 AP Environmental Science Honors, 11-12, 1 credit, 1 year, prerequisite 420/425 and Algebra I

SECTION V - World Languages

- 501/502 Latin Foundations of English, 9-12, ½ credit, 1 semester
- 510 French I, 9-12, 1 credit, 1 year
- 520 French II, 10-12, 1 credit, 1 year, prerequisite French I
- 525 French II Honors, 10-12, 1 credit, 1 year, prerequisite French I
- 535 French III Honors, 11-12, 1 credit, 1 year, prerequisite French II
- 555 French IV Honors, 11-12, 1 credit, 1 year, prerequisite French III
- 512 Spanish I, 9-12, 1 credit, 1 year
- 522 Spanish II, 10-12, 1 credit, 1 year, prerequisite Spanish I
- 575 Spanish II Honors, 10-12, 1 credit, 1 year, prerequisite Spanish I
- 532 Spanish III, 11-12, 1 credit, 1 year, prerequisite Spanish II
- 585 Spanish III Honors, 11-12, 1 credit, 1 year, prerequisite Spanish II
- 546 Spanish IV, 11-12, 1 credit, 1 year, prerequisite Spanish III
- 595 Spanish IV Honors, 11-12, 1 credit, 1 year, prerequisite Spanish III
- 560/561 Conversational Spanish, 11-12, ½ credit, 1 semester (or 1 credit, 2 semesters)

SECTION VI - Art and Fine Arts

- 935 AP Drawing, 11-12, 1 year, 1 credit, prerequisite 951/945, 955, 956/957 and teacher permission
- 936 Art History Honors, 11-12, 1 year, 1 credit (*Not offered in 2009-2010*)
- 943 Printmaking, 10-12, 1 credit, 1 year, prerequisite 951
- 950 Photography I, 10-12, ½ credit, 1 semester, prerequisite none
- 951 Art I, 9-12, 1 credit, 1 year
- 953/954 Painting A and B, 10-12, ½ credit, 1 semester and 1 credit, 2 semesters, prerequisite 951
- 945 Art I Honors, 9-12, 1 credit, 1 year
- 955 Art II Honors, 10-12, 1 credit, 1 year, prerequisite 945/951
- 956 Drawing A, 10-12, ½ credit, 1st semester, prerequisite 951
- 957 Drawing B, 10-12, ½ credit, 2nd semester, prerequisite 951 (*Not offered in 2009-10*)
- 958 Band, 9-12, 1 credit, 1 year
- 960 Photography II, 10-12, ½ credit, 1 semester, prerequisite 950
- 961 Music Theory, 9-12, ½ credit, 1 semester (fall)
- 962 Chamber Music for Strings, 9-12, ½ credit, 1 semester, by audition
- 964 Jazz Combo Honors, 10-12, 1 credit, 1 year, by audition
- 970 Acting I, 9-12, ½ credit, 1 semester (*Not offered in 2009-2010*)
- 980 Introduction to Dance, 9-12, ½ credit, 1 semester (can fulfill one semester of P.E. or Fine Arts), prerequisite 1 semester of P.E.
- 944 Book Arts, 10-12, ½ credit, 1 semester, prerequisite 951 (spring)
- 9400 Earthworks I, 9-12, ½ credit, 1st semester (Pass/Fail only)
- 9420 Earthworks II, 9-12, ½ credit, 2nd semester (Pass/Fail only)
- 9620 Steel Band I, 9-12, ½ credit, 1 semester (Pass/Fail only)
- 9630 Steel Band II, 9-12, ½ credit, 1 semester, prerequisite 9620 (Pass /Fail only)
- 9635 Creating Music, 9-12, ½ credit, 1 semester (spring)
- 9640 Chorus, 9-12, ½ credit, 1 semester (*Not offered in 2009-2010*)

SECTION VII - Industrial Technology

- 811 Woodworking I, 9-12, ½ credit, 1 semester
- 830 Woodworking II, 9-12, ½ credit, 1 semester, prerequisite 811
- 838 Residential Construction, 11-12, ½ credit, 1 semester (spring)
- 839 Home Renovation, 10-12, ½ credit, 1 semester (fall)
- 840 Home Repair & Maintenance, 10-12, ½ credit, 1 semester (spring)
- 841 Drafting, 9-12, ½ credit, 1 semester (fall)

- 842 Architectural Drafting, 9-12, ½ credit, 1 semester (spring), prerequisite Computer Lit. and Drafting or Art
- 843 Advanced Woodworking, 11-12, ½ credit, 1 semester, prerequisite 811 and 830 and teacher permission
- 870 Art of Guitar Making, 10-12, ½ credit, 1 semester (fall/spring)
- 850 Introduction to Technology, 9-12, ½ credit, 1 semester (fall)
- 851 Manufacturing Technology, 9-12, ½ credit, 1 semester (fall)
- 852 Design Technology, 9-12, ½ credit, 1 semester (fall)
- 853 Technology Independent Problem-Solving, 11-12, ½ credit, 1 semester (spring)
- 855 Energy and Power Technology, 10-12, ½ credit, 1 semester, prerequisite Introduction to Technology (spring)
- 856 Engine Technology, 10-12, ½ credit, 1 semester (fall)
- 857 Transportation Technology, 11-12, ½ credit, 1 semester (spring)
- 860 Senior Seminar Boat building, 12, ½ credit, 1 semester (spring), prerequisite teacher permission
- 861 Invention Through Technology, 11-12, ½ credit, 1 semester (spring)
- 862 C.A.D Engineering Design, 10-12, ½ credit, 1 semester, prerequisite Computer Literacy, Drafting, or Instructor approval (spring)

SECTION VIII – Computer Technology

- 53 Web Publishing, 9-12, ½ credit, 1 semester, prerequisite 55
- 55 Computer Literacy/Keyboarding, 9-12, ½ credit, 1 semester
- 56 Desktop Publishing, 9-12, ½ credit, 1 semester, prerequisite 55
- 58 Computer Applications, 9-12, ½ credit, 1 semester, prerequisite 55
- 51 Introduction to Computer Programming in Java, 9-12, ½ credit, 1 semester, prerequisite 55
- 52 Introduction to Video Technology, 9-12, ½ credit, 1 semester, prerequisite 55

SECTION IX - Business Education

- 625 Recordkeeping, 10-12, 1 credit, 1 year
- 631 Accounting, 11-12, 1 credit, 1 year

SECTION X - Health - Physical Education

- 980 Introduction to Dance, 9-12, ½ credit, 1 semester, prerequisite 999
- 996 Physical Management, 9-12, ½ credit, 1 semester
- 997 Experiential Education & Outdoor leadership, 10-12, ½ credit, 1 semester, prerequisite 1 semester PE
- 998 Health, 9-10, ½ credit, 1 semester
- 999 Physical Education, 9-12, ½ credit, 1 semester
- 995 Advanced Fitness Training, 10-12, ½ credit, 1 semester, prerequisite 1 credit of PE

SECTION XI – Experiential Education

- 1000 Independent Study, 11-12, ½ credit, 2 to 3 weeks, prerequisite parental permission and eligibility
- 1201/1202 Co-operative Education, 11-12, ½ credit, 1 semester, prerequisite OFSS permission

COURSE DESCRIPTIONS

SECTION I ENGLISH

FRESHMEN ENGLISH OFFERINGS:

NOTE: A number of criteria are used to determine which course level is suitable for an incoming ninth-grader, including performance on Maine Learning Results in grade 8, recommendation by the Office of Faculty and Student Services, and/or classroom demonstration.

110 INTRODUCTION TO LITERATURE, 9, 1 year, 1 credit

This dynamic course, recently designed with the needs of first year students in mind, is a year-long course divided into four modules, or mods, each presented by a different teacher in a quarter-long unit of study. The modules are (1) short fiction, (2) drama, (3) poetry, and (4) nonfiction and language conventions. The course develops reading, writing, thinking, speaking, and listening skills primarily through the study of literature in a way that maximizes student interest, maintains student focus, and promotes organizational skills. Writing assignments tend to be expository-analytical responses (paragraphs and essays) to text, but also include other modes of writing such as journaling, personal narrative, poetry, and other forms of creative expression. A premium is placed on writing as a process, not just as a product; students can expect to engage in prewriting, drafting, peer-editing, and revising. Students also study grammar and usage, vocabulary in context, and some aspects of research-based writing. The oral component of this course is ongoing, developed through brief presentations, reading aloud, active participation in class discussions, and especially through the study of drama and poetry.

111 ENGLISH FOUNDATIONS, 9, 1 year, 1 credit

This course is strongly recommended for students entering the Academy who need remediation in basic reading and/or writing skills prior to admittance to college preparatory studies. Reading instruction will focus on the development of skills such as reading for details, finding the main idea, using context clues, and making inferences. Individualized instruction in reading, paragraph and essay writing, vocabulary development, and basic grammar will be provided. The primary goal for each student at course completion is a gain of two or more years in reading comprehension level. Readings may include *Of Mice and Men*, *The Education of Little Tree*, *The Old Man and the Sea*, *A Day No Pigs Would Die*, and *Our Town*.

115 INTRODUCTION TO LITERATURE HONORS, 9, 1 year, 1 credit

This course has the same modular format as ENG 110 (see course description above), and it incorporates essentially the same material. What makes it an honors-level course is its faster pace, its greater depth of focus, and its use of supplemental materials.

SOPHOMORE ENGLISH OFFERINGS:

120 BRITISH LITERATURE, 10, 1 year, 1 credit

Prerequisite: English 110, 111 or 115

The course is a year-long study of works of literature by writers from the United Kingdom and, more broadly, the British Commonwealth. Students will read works from a variety of genres: novels, essays, poetry, plays, and short stories. The chief goal of the course is to improve students' reading comprehension and strategies so that reading becomes a more productive and enjoyable experience. We will read four major works, for example: Arthur Conan Doyle's *Hound of the Baskervilles*, Mark Haddon's *Curious Incident of the Dog in the Night-Time*, Shakespeare's *Macbeth*, and P.D. James's *Children of Men*. We will also read selected short stories and essays by authors such as Ishiguro, Sillitoe, Mansfield, Orwell, and Saki. Significant class time will be devoted to reviewing and mastering grammar, and developing a clearer, more convincing writer's voice. Students can expect reading assignments most nights, and writing exercises both in and out of class.

122 ENGLISH FOUNDATIONS, 10, 1 year, 1 credit

Prerequisite: English 111 or recommendation by the Office of Faculty and Student Services

Through short fiction, nonfiction, and drama, students will continue to develop reading skills, to review grammar, and to apply their learning to various writing assignments. Literature options include *Romeo and Juliet*, *And Then There Were None*, *Lord of the Flies*, and *Walkabout*, among others. Successful completion and/or demonstration of skills will prepare students for College Preparatory English courses.

125 BRITISH LITERATURE HONORS, 10, 1 year, 1 credit

Prerequisite: English 115 (preferred) or English 110 (see Honors Policy)

The course is a year-long study of works of literature by writers from the United Kingdom and, more broadly, the British Commonwealth. Students will read works from a variety of genres, including novels, essays, poetry, plays, and short stories. The chief goal of the course is to sharpen and refine critical reading and interpretive skills; to become better at recognizing and making sense of literary elements, devices, and conventions; and to "learn the language" of literary analysis that leads good readers to a deeper understanding, appreciation of, and enjoyment of literature. Four major texts will be studied in depth, for example: Shakespeare's *Macbeth*; Mary Shelley's *Frankenstein*; Joseph Conrad's *Heart of Darkness*, and P.D. James' *Children of Men*. In addition, we will read selected works by such authors as James Joyce, Kazuo Ishiguro, Saki, Virginia Woolf, Katherine Mansfield, Alan Sillitoe, Salman Rushdie, John Keats, Yeats, Stevie Smith, Jonathan Swift, George Orwell, A. S. Byatt, and Penelope Fitzgerald. This is a challenging course. Students can expect reading assignments most nights, and in- and out-of-class writing assignments throughout the quarter. Most writing assignments will emphasize textual analysis rather than research and reports, and students should expect to write at least three major papers as well as many shorter ones. Students *must* complete a summer reading list and journal assignment before starting this course.

JUNIOR/SENIOR ENGLISH OFFERINGS:

NOTE: (1) At the junior and senior levels, all students are enrolled in either the college preparatory English or the Honors/AP level. Students who need additional skills in reading and writing are provided with support services.

- (2) *College Preparatory English: In order to provide these juniors and seniors with more variety, the program has been recently redesigned. Juniors are required to take the one-semester AMERICAN LITERATURE course and to choose a one-semester JR/SR topics course. Seniors are required to take the one-semester WORLD LITERATURE/RHETORIC course and to choose a one-semester topics course. The topics courses include MAINE WRITERS (150), JOURNALISM (151), WRITING FOR TV AND FILM (152), and BREAKING THE CODE: READING ACROSS THE CURRICULUM (155). See course descriptions below. Juniors and seniors must be enrolled in an approved English course each semester, and students who wish to take an additional English topics course may do so with permission of the Office of Faculty and Student Services, pending available space.*
- (3) *Honors/AP English: AP English Literature and World Literature/Rhetoric Honors remain one-year courses. Students enrolled in these courses do not usually take an additional topics course but may do so with the permission of the English Department and the Office of Faculty and Student Services, pending available space.*

131 AMERICAN LITERATURE, 11, 1 semester, ½ credit

Prerequisite: English 120, 122, or 125

This is a semester-long study of American literature. The course is divided into two units, each roughly one academic quarter in length. The first unit is an abbreviated survey of American literature from the colonial era to the early 20th Century. Readings in this unit consist of short stories, poems, and essays. The second unit focuses on a novel, most likely *The Catcher in the Rye*. The course provides continued composition development, including expository-analytical paragraph and essay writing, and a personal essay that might be the basis of a future college application essay. We will spend time on vocabulary and grammar, and we will complete some brief but focused PSAT/SAT preparation. Oral communication skills are encouraged and developed through a brief presentation and, most importantly, through active and appropriate participation in our numerous discussions of the literature at hand. Finally, although the readings will be discussed separately and on their own terms, we will examine how they connect to a course theme, currently *the journey*.

135 AP ENGLISH LITERATURE, 11, 1 year, 1 credit

Prerequisite: English 125 (preferred) or 120 (see Honors Policy)

This is a challenging college-level course aligned with the national AP curriculum requirements. Here at GSA, the course is delivered as a study of American Literature covering several major American literary figures, primarily from the 19th and 20th centuries, and the recurring themes in their works. We will be especially concerned with reading well and closely, with further developing a familiarity with various literary elements and how they create meaning, and with developing clear and authoritative expository-analytical essays on literature. Writing tasks are numerous, divided between take-home and on-demand assignments, vary in length, and almost always require students to engage with textual detail and theme. One or two creative writing assignments and at least one personal essay are assigned

to supplement student understanding of the literature at hand. All literature-based work in this course is extensively supported through frequent class discussions, most of which are student-led and teacher-facilitated and, to a certain extent, modeled after college seminars. Language-intensive work includes grammar, vocabulary in context, and some specific SAT preparation. A significant amount of time is devoted to preparation for the AP exam, which all students are expected to take. A summer reading and writing unit is required.

141 WORLD LITERATURE/RHETORIC, 12, 1 semester, ½ credit

Prerequisite: English 131 or 135

Through the study of archetypes, which appeal to readers on a fundamental level, as dreams and myths do, students examine readings from western mythology and learn to recognize their application today in marketing, modern literature, poetry, art, music, and film. Using Hamilton's *Mythology* as a resource and texts such as *The Odyssey*, *Oedipus Rex*, *Siddhartha* and creation myths from around the world, students identify patterns of human behavior and qualities of character that are timeless. Students are also introduced to the art of persuasion through examination of media techniques, effective speeches, and short, persuasive essays. Writing requirements include the following: response journals, outlines, research, creative and analytic essays, drafting, revising, and editing. A major oral component involves the study of public speaking in preparation for senior debate. A culminating assignment, senior debate demonstrates that a student has synthesized all aspects of the Language Arts curriculum, from working cooperatively as well as independently, to researching, writing, delivering, and arguing a debate topic of serious merit.

145 WORLD LITERATURE/RHETORIC HONORS, 12, 1 year, 1 credit

Prerequisite: English 135 (preferred) or 131 (see Honors Policy)

This course focuses on classical western mythology as a philosophical and psychological base for modern literature. Readings cover a combination of classical and world literature. Semester one examines texts from the following list: Hamilton's *Mythology*, Johnson's *He and She*, Homer's *The Iliad* and *The Odyssey*, Sophocles' *Oedipus Trilogy*, Hesse's *Siddhartha*, Plato's *Great Dialogues*, Kazantzakis' *Zorba the Greek*, and Aristotle's *Poetics*. Semester two, students are introduced to a variety of authors from *Classics of Modern Fiction*: Dostoevsky, Baldwin, Lessing, Joyce, Marquez, Kafka, and more. Required are frequent response journals, research, critical analysis and response papers. A major oral component includes class presentations and a debate. A culminating assignment, senior debates demonstrate that students have synthesized all aspects of the Language Arts curriculum, from working cooperatively as well as independently, to researching, writing, delivering, and arguing a debate topic of serious merit. Summer reading is required.

ENGLISH TOPICS COURSES:

150 MAINE WRITERS, 11 – 12, 1 semester, ½ credit

Prerequisite: English 120, 122, or 125

This course explores Maine writers, covers a variety of literary genres and themes, and focuses primarily on the Maine coastal experience. It examines such issues as how we relate to the land and sea, how in some ways who we are is determined by where we are, how an interesting, complex, and sometimes tense dynamic has developed between people "from away" and people "from Maine," and how Maine has been and continues to be an inspiring place for writers. Authors will include some

traditional literary figures such as E.B. White, but the emphasis is on more contemporary (and in many cases local) writers such as Greenlaw, Booth, Phippen, Blair, McCall, Kestenbaum, Carpenter, Russo, Chute, Wormser, Thayer, Peavey, Fox, and Shetterly. As we make our way through the course, we will work toward an answer to these questions: What is a Mainer? Who decides? If there is such a thing as Maine literature, what exactly is it? As possible, area writers will be invited to do a reading and to join a discussion.

151 JOURNALISM, 11-12, 1 semester, ½ credit

Prerequisite: English 120, 122, or 125

This course focuses on the nuts and bolts of journalism—gathering accurate information and writing it up so readers can understand it. Students will learn how to write a basic news story and develop a sense of what is and isn't legitimate news. They will take on the roles of editors, proofreaders, copyeditors and reporters in classroom assignments and through the production of a school newspaper. Students will also most likely have opportunities to publish bylined stories about GSA events in the local weekly newspaper. If class size allows, we will visit a working newsroom to see how it functions. We will also have guest appearances by working journalists.

152 WRITING FOR TV AND FILM, 11-12, 1 semester, ½ credit

Prerequisite: 120, 122 or 125

Like to make trouble? That's what writing screenplays is all about: developing a sympathetic character, putting that character through a series of "seemingly insurmountable obstacles," and helping that character achieve a desirable outcome. Eliciting emotion in the reader through this kind of dynamic script is the key to a successful film. By writing original screenplays, students learn basic screenwriting format, scene structure, screenplay terminology and grammar, and characterization techniques. Projects include multiple three-act individual screenplays, group plays, and a short story adaptation. Students will create a short commercial or i-Movie if time allows.

155 BREAKING THE CODE: READING ACROSS THE CURRICULUM,
11-12, 1 semester, ½ credit

Prerequisite: English 120, 122, or 125

This course is designed to enrich the reading experience and enhance the processing skills of students at every reading level. Students will explore an engaging variety of subjects, including sociology, psychology, cryptography, science, drama, film/media, technology, poetry, music, history, and English, while learning to break down longer and more complex readings into their shorter, simpler, and more manageable components. Students will focus on developing their abilities to read quickly and accurately, analyze complex and powerful ideas, build vocabulary, apply knowledge across curricular disciplines, and improve their communication and critical thinking skills. Improving skills in these ways will help students be better prepared to work with readings of any kind either in college or in the workplace.

173/174 CREATIVE WRITING, 9-12, 1 semester, ½ credit, or 2 semester, 1 credit

Prerequisite: None (Note: Creative Writing is an elective and does not count as a JR/SR English required credit.)

Everyone has a story to tell and a song to sing! **Semester one** focuses on the elements of fiction, the relationship of creative non-fiction to fiction, and narrative techniques. Frequent discussion of published authors provides effective models. Texts include the following: *Creative Writer's Handbook, Flash Fiction, Sudden Fiction, and What If? Writing Exercises for Fiction Writers*. **Semester two** is devoted, first, to poetry and, second, to writing song lyrics. Students will focus on the art of poetry and on the conventions that both separate it from, and make it similar to writing song lyrics. Exposure to poets and lyricists through videos and recordings provides ideas for writing, as well as models for producing original work. Consulting texts include *Creative Writer's Handbook, Handbook of Poetic Forms*, the video series *The Language of Life, The Art of Writing Great Lyrics* and *Writing Better Lyrics*.

Placement and Promotion Procedures for English As a Second Language (ESL)

Initial placement: the SLEP test and an essay-writing test are administered on campus to all students in the International Student Program. Students are placed into an ESL class (or exempted from ESL) based on their scores on both of these tests. Students with a score of 56 or higher are exempt from taking ESL courses.

Promotion: Students are retested at the beginning of each semester and are promoted based on their progress.

180/181 ESL I (Replaces English)

ESL I is required for students with SLEP scores between 35 and 41, or with writing test scores that indicate ESL I-level writing. This two-semester course will be divided into two periods. One period will focus on developing general listening, speaking, reading, and writing skills through the study of general vocabulary; demonstration and presentation skills; reading comprehension; pronunciation; personal, creative, and basic academic writing; basic editing; and grammar. The second period will provide an opportunity for students to receive tutoring in their other subjects and additional English instruction when necessary. (Two periods)

182/183 ESL II (Replaces English)

ESL II is required for students with SLEP scores between 42 and 48, or with writing test scores that indicate ESL II-level writing. This two-semester course will be divided into two periods. One period will focus on developing basic academic listening, speaking, reading, and writing skills through the study of academic vocabulary; presentation and group discussion skills, academic reading skills; note-taking and research skills; pronunciation; creative and academic writing; editing and proofreading; and grammar. The second period will provide an opportunity for students to receive tutoring in their other subjects and additional English instruction when necessary. (Two periods)

185/186 ESL III (Replaces English)

ESL III is required for students with SLEP scores between 49 and 55, or with writing test scores that indicate ESL III-level writing. This two semester course will focus on developing advanced academic listening, speaking, reading, and writing skills through the study of academic vocabulary; group discussion and debate skills, academic reading skills; academic writing, editing and proofreading; literary analysis; and grammar. (One period)

SECTION II ***SOCIAL STUDIES***

210 INTRODUCTION TO SOCIAL SCIENCE, 9, 1 year, 1 credit

ISOS is the ninth grade social studies course; it introduces students to the main disciplines and skills of the GSA social studies program. The first semester is an overview of US government and economics. Students do an in-depth study of core principles of our political and economic organization (e.g., Bill of Rights: balancing the needs of society against individual rights). The second semester is a case study approach to modern world history, studying the recent history of China, South Africa and Israel-Palestine. Each country is chosen in order to explore a relevant guiding theme (e.g., South Africa: evaluating the success and ethics of resistance to apartheid). The course emphasizes the acquisition of knowledge for the purpose of developing and defending opinions. There is also focused emphasis on developing writing skills.

211 INTRODUCTION TO SOCIAL SCIENCE A, 9, 1 year, 1 credit

ISOS A is the ninth grade social studies course; it introduces students to the main disciplines and skills of the GSA social studies program. The first semester is an overview of US government and economics. Students do an in-depth study of core principles of our political and economic organization (e.g, Bill of Rights: balancing the needs of society against individual rights). The second semester is a case study approach to modern world history, studying the recent history of China, South Africa and Israel-Palestine. Each country is chosen in order to explore a relevant guiding theme (e.g., South Africa: evaluating the success and ethics of resistance to apartheid). The course emphasizes the acquisition of knowledge for the purpose of developing and defending opinions. There is also focused emphasis on developing writing skills.

215 INTRODUCTION TO SOCIAL SCIENCE HONORS, 9, 1 year, 1 credit

ISOS Honors is the ninth grade social studies course; it introduces students to the main disciplines and skills of the GSA social studies program. The first semester is an overview of US government and economics. Students do an in-depth study of core principles of our political and economic organization (e.g, Bill of Rights: balancing the needs of society against individual rights). The second semester is a case study approach to modern world history, studying the recent history of China, South Africa and Israel-Palestine. Each country is chosen in order to explore a relevant guiding theme (e.g, South Africa: evaluating the success and ethics of resistance to apartheid). The course emphasizes the acquisition of knowledge for the purpose of developing and defending opinions. There is also focused emphasis on developing writing skills. Like other honor level courses, the pace of the course is accelerated.

220 WORLD HISTORY, 10, 1 year, 1 credit

Prerequisite: ISOS 210 / 211 / 215

World History is designed to introduce students to the major world cultures and events from the Greeks to the modern day. In particular, students will spend significant class time examining the history and society of two emerging superpowers, China and India. Special attention will be given to understanding the diverse religions and philosophies present in the modern world. There is a basic text used in the class. In addition, students are expected to read articles and documents, create research-based projects, participate in class discussion, and take tests and quizzes.

223 WORLD HISTORY A, 10, 1 year, 1 credit

Prerequisite: ISOS 211 or teacher recommendation

World History A is designed to introduce students to the major world cultures and events from the Greeks to the modern day. In particular, students will spend significant class time examining the history and society of two emerging superpowers, China and India. Special attention will be given to understanding the diverse religions and philosophies present in the modern world. There is a basic text used in the class. In addition students are expected to read articles and documents, create research-based projects, participate in class discussion, and take tests and quizzes. This section focuses on developing writing, research, and analysis skills.

225 WESTERN CIVILIZATION HONORS 10, 1 year, 1 credit

Prerequisite: ISOS 210/215 (see Honors Policy)

This course focuses on the history of Western (European) civilization beginning from the earliest human records through the 19th century. Students study geography, events, births, rebirths, and revolutions, the rise and fall of cultures and societies, historical causes and historical effects, and individual men and women who importantly influenced cultures and societies. We will raise essential questions such as: Where did European culture come from? How and why do societies and cultures evolve, change, thrive, and die? What forces and factors cause change? What important themes emerge in the history of the West? What can history teach us about our present and our future? The course emphasizes the development of students' critical reading, writing, note-taking, and library research skills. Students can expect nightly reading assignments and frequent quizzes and writing assignments, but also plenty of opportunities for independent research, collaborative projects, and class discussions.

230 U.S. HISTORY 11, 1 year, 1 credit

Prerequisite: World History 220/223/225

U.S. History deals with the development of American ideals and institutions through the study of major events and personalities of American history from colonization to the modern era. The course provides a perspective on the relationship between the past and contemporary issues. Emphasis is placed upon the development of written and oral communication skills and research through special projects, papers, simulations and debates. Students are routinely required to use charts and maps as well as their reading to make inferences and draw conclusions about the major events in U.S. history. Documentaries are also used to enrich the study of historic periods.

231 U.S. HISTORY A, 11, 1 year, 1 credit

Prerequisite: World History 223 or teacher recommendation

U.S. History A deals with a study of major events and personalities of American history from colonization to the modern era. Students discuss the relationship between past and present in American history. Basic skills such as reading for details, researching data, writing essays, note taking and identifying concepts are stressed.

A variety of readings as well as textbook materials and documentary films are employed about the major events in U.S. history. Documentaries are also used to enrich the study of historic periods.

265 AP U.S. HISTORY, 11, 1 year, 1 credit

Prerequisite: Western Civilization 225 and teacher permission

AP U.S. History deals with the development of American society, ideals and institutions through an intensive study of the political, social, economic and cultural history of the United States. The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with materials and problems in U.S. history. Students will learn to assess a variety of historical materials—their relevance to a particular problem, their reliability and importance—and to weigh the evidence and interpretations presented in historical scholarship. In preparation, summer reading and writing are required. Students who enroll in this class should be seeking a history experience at a collegiate level; they should also plan to prepare for and take the AP exam in May.

238 WORLD WAR II TO VIETNAM, 12, 1 semester, ½ credit

Prerequisite: U.S. History 230, 231, 265

This course has two main goals: (a) to investigate the major social movements of the late 1940's through the late 1960's. This will include the study of anti-communism, civil rights, and the anti-war movement. (b) to examine important music, film, and books of the era. To accomplish these goals we will engage in short readings, discussion, and debates. In addition, we will listen to music, watch films, and write several response papers. Each student will read and present a provocative book from the era. Final evaluation will consist of active participation in a collaborative project.

248 INTRODUCTION TO PSYCHOLOGY, 11-12, 1 semester, ½ credit

This course will introduce students to some of the major areas of psychology. Students will explore the nature of psychology: Is it objective and scientific? What are the different approaches to psychology? Students will be introduced to some of the main topic areas of psychology: consciousness, learning, intelligence, abnormal psychology, personality and gender. The coursework and grading will emphasize developing and arguing opinions based on fact and analysis. Students may take this course because they are interested in a psychology-related career (psychology, medical careers, advertising) or out of personal interest. This course is open to seniors, and juniors by permission of their current social studies teacher.

250 PHILOSOPHY, 11-12, 1 semester, ½ credit

Ethics is the branch of philosophy that aims to answer the question, “How should I live?”

Once we take this question seriously, many other difficult, but fascinating, questions emerge: “How do I know what is right?” and “Is right for me the same as right for others?” “What are human rights?” “What happens when rights conflict?” “Do I have to tolerate opinions and behaviors that religious conviction tells me are wrong?” “Do religious beliefs or cultural norms justify offensive or harmful behavior?” “Is it ever right to impose my beliefs and code of conduct on others?” “How do we decide how to treat the unborn? the mentally incompetent? the very young? the very old? the dying? criminals? terrorists?” “Do animals have rights?” “Do I have a moral duty to protect the environment?” In this class we will (1) notice the sorts of problems and difficulties we begin to encounter when we try to answer these questions; (2) consider several historically important theoretical ethical frameworks; and (3) study in depth several “live” ethical issues, such as assisted suicide; abortion; famine; animal rights; offense to others; bioethics. This course is open to seniors, and juniors by permission of their current social studies teacher.

255 AP HUMAN GEOGRAPHY, 12, 1 year, 1 credit

This course is a college-level introduction to human geography. Human geography is the study of the geographic patterns of human culture, politics, and economics. We will study how the way that people live is influenced by their physical and spatial environment. Topics of study will be mostly from modern history and current events and will cover the local geography of Hancock County as well as geographic issues from around the world. In addition to geographic content, students will develop skills in mapping, statistics, graphical representation of data, and original research. Students who take this course should plan to take the AP examination in May.

261 THE HOLOCAUST, 11-12, 1 semester, ½ credit

The class will provide an in-depth look at Germany's post World War I social and political environment that gave rise to Adolf Hitler's rule and the attempted genocide of the European Jewish population. Hitler's actions during World War II will be examined as well as the persecution that the Jewish population of Europe endured during his rule. The aftermath of Hitler's reign on Germany and the Jewish population will also be analyzed through the course, along with reactions from America and other areas of the world.

264 PUBLIC POLICY, 11-12, 1 semester, ½ credit

Public Policy is any intentional action by a government institution or official for the purpose of resolving an issue of public concern. The course will identify, analyze and actively discuss a number of such issues such as education, race, energy, environmental protection, free speech, gun rights, and health care. The purpose of this course is to foster an interest in present-day political issues and to illustrate opportunities for political action in the future. Newspapers, contemporary books, media and internet materials will be used.

SECTION III

MATHEMATICS

310 ALGEBRA I, 9-11, 1 year, 1 credit

Prerequisite: None

This course is the first installment of a traditional sequence in college-prep math. Topics include properties of the real number system, solution of linear and quadratic equations, functions, graphing, laws of exponents, polynomials, probability and proportions. There is no formal prerequisite for this course, but a good pre-algebra background is necessary.

313 PRE-ALGEBRA, 9-10, 1 year, 1 credit

Prerequisite: None.

Pre-Algebra is for those students who feel they need additional preparation before taking Algebra I. The course starts with the basics: understanding numbers, place value and operations, and working with increasingly complicated arithmetic expressions. From there, students will make the transition to fundamental algebra topics, including signed numbers, solving equations, graphing, ratios, proportions and percents. Students who have a marginal arithmetic background are strongly encouraged to take this course prior to taking algebra.

314 ALGEBRA IA, 10-11, 1 year, 1 credit

Prerequisite: None

This is the first year of a sequence of courses that culminates in Algebra II or Algebra IIA. The course covers much of the material in a traditional first algebra course. It is designed for students who have completed Pre-Algebra at GSA or another high school, but who may not be ready for the fast pace of Algebra I. Permission of the math department is required for enrollment. There is no formal prerequisite for this course, but a good background in arithmetic is necessary.

315 ALGEBRA I HONORS, 9-10, 1 year, 1 credit

Prerequisite: None

Algebra I Honors covers much of the same material as Algebra I, but at a faster pace and in considerably more depth. The course is suitable for students of high mathematical ability who are planning to go into a technical field or who wish to study mathematics for its own sake. There is no formal prerequisite for this course, but a good pre-algebra background is necessary.

320 GEOMETRY, 10-12, 1 year, 1 credit

Prerequisite: Algebra I Honors or Algebra I or Algebra IA

Geometry is concerned with the measurement of and relations between lines, angles, surfaces and solids. Students will explore basic spatial relationships and study the notion of proof. The course includes an intensive review of elementary algebra topics.

323 LAB GEOMETRY, 10-12, 1 year, 1 credit

Prerequisite: Algebra I or Algebra IA

This is geometry with power tools. The course is team-taught by a mathematics teacher and a technology teacher. Students will be actively engaged in applying, testing and discovering geometric principles and will become proficient in three levels of geometric thinking; visualization, analysis and informal deduction. Students will work cooperatively on real-world projects in workshop settings and will be exposed to community resources to see geometric principles applied. Topics covered include angles, parallel lines, triangles, trigonometry, circles, area, volume and coordinate geometry.

325 GEOMETRY HONORS, 9-12, 1 year, 1 credit

Prerequisite: One year of high school algebra or demonstration of fluency in Algebra I via a placement exam (see Honors Policy).

Students will explore basic spatial relationships and study the notion of proof. The course includes an intensive review of elementary algebra topics. This course covers much the same material as Geometry (320) but in greater depth and with greater emphasis on proof.

329 ALGEBRA IIA, 10-12, 1 year, 1 credit

Prerequisite: Algebra I or Algebra IA.

Co-requisite: Geometry or Lab Geometry

This course is a continuation of Algebra IA. Topics include solution of quadratic equations, solution of systems of linear equations, and basic statistics and data analysis. Permission of the mathematics department is required for enrollment.

330 ALGEBRA II, 10-12, 1 year, 1 credit

Prerequisite: Algebra I Honors or Algebra I or Algebra IA.

Co-requisite: Geometry Honors or Geometry or Lab Geometry

After a review of Algebra I, students will explore transformations, systems of equations, complex numbers, fractional exponents, rational expressions, basic probability and statistics, and logarithmic and exponential functions.

[Note: The math department recommends that students should not double up in Geometry and Algebra II unless they earned at least a B in Algebra I or Algebra I Honors.]

335 ALGEBRA II HONORS, 10-12, 1 year, 1 credit

Prerequisite: Algebra I Honors or Algebra I.

Co-requisite: Geometry or Geometry Honors (see Honors Policy)

After a review of Algebra I, students will explore transformations, systems of equations, complex numbers, fractional exponents, rational expressions, basic probability and statistics, logarithmic and exponential functions, and sequences and series. The depth of coverage is more intense than in Algebra II (330).

[Note: The math department recommends that students should not double up in Geometry and Algebra II unless they earned at least a B in Algebra I or Algebra I Honors.]

346 ANALYTIC GEOMETRY & ADVANCED ALGEBRA, 11-12, 1 semester, ½ credit

Prerequisite: Algebra II Honors or Algebra II

This is the first half of the course formerly called Advanced Math. Topics include graphs of conic sections, solving systems of linear equations 3x3 and larger, proof by induction, sequences and series, and a review of exponential functions, logarithms, and imaginary numbers. The course will be useful to most students planning to enter college. Purchase of a graphing calculator is required. Please see instructors, instructor websites, or the mathematics department website for information on acceptable calculators. Students who plan college study of sciences, business, or other fields that require advanced mathematics should also plan to take Trigonometry or Honors Trigonometry before high school graduation.

356 ANALYTIC GEOMETRY & ADVANCED ALGEBRA HONORS, 11-12, 1 semester, ½ credit

Prerequisite: Algebra II Honors or Algebra II

This is the first half of the course formerly called Advanced Math. Topics include graphs of conic sections, solving systems of linear equations 3x3 and larger, sequences and series, proof by induction, and a review of exponential functions, logarithms, and imaginary numbers. Purchase of a graphing calculator is required. Please see instructors, instructor websites, or the mathematics department website for information on acceptable calculators. Students who plan college study of sciences, business, or other fields that require advanced mathematics should also plan to take Trigonometry or Honors Trigonometry before high school graduation.

347 TRIGONOMETRY, 11-12, 1 semester, ½ credit

Prerequisite: Second semester of Algebra II Honors or Algebra II

High school trigonometry is essential for admission to many college programs, including math, sciences, engineering, and programs at top-tier business colleges. Topics covered include radian measure, definitions and graphs of circular functions, applying trigonometry to geometry and physics problems, derivation and use of fundamental trig identities, and verifying identities. Purchase of a graphing calculator is required. Please see instructors, instructor websites, or the mathematics department website for information on acceptable calculators.

357 TRIGONOMETRY HONORS, 11-12, 1 semester, ½ credit

Prerequisite: Algebra II Honors or Algebra II

This course provides in-depth coverage of trigonometry and includes such pre-calculus topics as polar coordinates. Purchase of a graphing calculator is required. Please see instructors, instructor websites, or the mathematics department website for information on acceptable calculators.

344 ELEMENTARY STATISTICS, 10-12, 1 semester, ½ credit

Prerequisite: Algebra I Honors or Algebra I

How was an industry almost destroyed because some mice drank too much diet soda? What is a “margin of error” in a political poll? What principles of sampling tell us that election exit polls are extremely unreliable? People need a basic knowledge of statistics in order to evaluate science and social science data, to make business decisions, and to understand things as simple as TV coverage of a political campaign. After a review of elementary combinatorics and probability, students in this course will learn the basics of inferential statistics and hypothesis testing and get some experience in experimental design. The course is grounded in real-world situations, and many students will find that it is the most useful math course that they take in high school.

355 AP STATISTICS, 11-12, 1 year, 1 credit

Prerequisite: Algebra II Honors or Algebra II (see Honors Policy)

This honors class is a rigorous, university-level introduction to statistics. The four major areas covered are exploring data, planning a study, anticipating patterns, and statistical inference. Purchase of a graphing calculator is required; please see instructors, instructor websites or the mathematics department website for information on acceptable calculators. The course syllabus is aligned with the nationally recognized standards of the College Board Advanced Placement program. Students are expected to take the College Board AP Statistics exam in May.

365 AP CALCULUS (AB level), 11-12, 1 year, 1 credit

Prerequisite : Analytic Geometry & Advanced Algebra Honors or Analytic Geometry & Advanced Algebra; Trigonometry Honors or Trigonometry (see Honors Policy)

This is a rigorous, university-level introduction to calculus. Fluency in algebra and trigonometry is essential, and students will be required to do preparatory homework during the summer preceding the course. Purchase of a graphing calculator is required. Please see instructors, instructor websites or the mathematics department website for information on acceptable calculators. The course syllabus is aligned with the nationally recognized standards of the College Board Advanced Placement program. All students are expected to take a College Board AP Calculus exam in May.

375 BC CALCULUS SUPPLEMENTAL, 11-12, 1/2 year, ½ credit; spring semester only

Co-requisite: AP Calculus (AB level)

This course is designed for students who want to take the College Board BC level Advanced Placement Calculus exam. The course moves quickly. The syllabus is aligned with the nationally recognized standards of the College Board Advanced Placement program. Students will be expected to complete an assignment on integration by parts, integration by partial fractions, and evaluation of improper integrals before the course begins. A test on these topics will be given during the second class meeting. Topics covered prior to the AP exam are sequences and series, Taylor polynomials, Taylor series, polar coordinates, arc lengths, parametric equations, the logistic equation and Euler’s method for numerical solution of differential equations. Topics covered after the AP exam include advanced techniques of integration and solution of differential equations via integrating factors. Concurrent enrollment in AP Calculus (AB level) is required.

326 BUSINESS MATH, 10-12, 1 year, 1 credit

This course is designed for any student who wants to use math and technology to understand and solve problems that are pertinent to today's world of business and personal money management. In addition to reviewing essential basic math skills, students will learn to use Excel spreadsheets to keep records, to do powerful calculations, and to analyze financial situations that commonly occur in real-world financial situations. Topics will include credit card debt, mortgages, interest, taxes, banking, payroll, trade and cash discounts, and retail merchandising.

SECTION IV SCIENCE

400 EXPLORING EARTH SYSTEMS, 9, 1 year, 1 credit

This freshmen science course will be an exploration of interactions between the geosphere, atmosphere, hydrosphere, and biosphere. This course will integrate chemistry, physics, biology, and earth science while investigating issues of relevance to everyone. Lab work, fieldwork, and analysis of online data will be important components of this course.

401 FUNDAMENTALS OF EARTH SYSTEMS, 9, 1 year, 1 credit

Fundamentals of Earth Systems is designed to strengthen basic skills and stimulate interest in the sciences through an exploration of interactions between the geosphere, atmosphere, hydrosphere, and biosphere. Lab work, fieldwork, and analysis of online data will be important components of this course.

405 EXPLORING EARTH SYSTEMS HONORS, 9, 1 year, 1 credit

Co-requisite: Register for Algebra I Honors or Geometry Honors

This challenging freshmen science course will be an exploration of interactions between the geosphere, atmosphere, hydrosphere, and biosphere. This course will integrate chemistry, physics, biology, and earth science while investigating issues of relevance to everyone. Lab work, fieldwork, and analysis of online data will be important components of this course.

452 FUNDAMENTALS OF BIOLOGY, 10-11, 1 year, 1 credit

Prerequisite: Fundamentals of Physical Science or teacher recommendation

This course explores the basic principles of biology such as taxonomy and the diversity of life, cells, genetics, anatomy and physiology, cycles of matter, ecology, and evolution. Students will be encouraged to examine real-world issues as they relate to biological concepts. Lab investigations are an important part of this course.

420 BIOLOGY COLLEGE PREP, 10-11, 1 year, 1 credit

Prerequisite: Integrated Physical Science 410/415 or teacher recommendation

This course is designed to provide students with a survey of the science of biology. Areas of study include: the cell, photosynthesis, cellular respiration and division, reproduction, heredity, evolution and classification of organisms from each of the phyla. Lab work is coordinated with and reinforces classroom study.

425 BIOLOGY HONORS, 10, 1 year, 1 credit

Prerequisite: Integrated Physical Science 410/415 (See Honors Policy)

This course is designed to provide students with a survey of the science of biology. Areas of study include: the cell, photosynthesis, cellular respiration and division, reproduction, heredity, evolution and classification of organisms from each of the phyla. Biology Honors students will be expected to complete a research presentation and additional readings, as well as to read at an independent level and to be personally responsible for their work planning and budgeting of time. Biology Honors goes into greater detail on each of the topics than Biology College Prep. Lab work is coordinated with and reinforces classroom study.

430 CONCEPTUAL PHYSICS, 11-12, 1 year, 1 credit

Prerequisites: Biology 452/420 and Algebra I.

Commitment: This is a single period laboratory-based course intended for both science and non-science oriented students. Mathematical problem solving will be included in this course.

Description: In this course students apply the concepts of physics to explain various physical phenomena.

Topics to be discussed include mechanics, heat, sound and light, the properties of matter, and electricity and magnetism. Student evaluation will be based primarily upon student participation, presentations, group and individual projects, laboratory reports, and tests.

433 PHYSICS THROUGH TECHNOLOGY, 11-12, 1 credit, 1 year

Prerequisite: Algebra I (310)

This course is activity oriented. Units are designed to help students understand that physics is used to help solve everyday problems by constructing devices to better serve our needs. Topics of study will be measuring devices, heat and temperature, properties of solids, liquids and gases, laws of motion, momentum, mechanical energy like rotational and circular systems, electricity and magnetism principles used in circuits, motors and generators and hydraulic systems.

434 MODELING PHYSICS COLLEGE PREP, 11-12, 1 year, 1 credit

Prerequisites: Biology 420/425, and students should also have successfully completed (or be enrolled in) Algebra II.

Commitment: This is a single period, MATH INTENSIVE, problem-solving course for any student with a serious interest in mathematical problem solving and the physical sciences.

Description: Students in this course will use the modeling method to develop a more coherent and systematic understanding of physics. Students will investigate various physical phenomena in the laboratory, developing mathematical models to solve various problems and explain new physical situations. Topics to be discussed will focus on mechanics, including motion, forces, momentum, energy and energy transfer. Student evaluation will be based primarily upon classroom participation, presentations, formal laboratory reports, group projects, and tests.

435 MODELING PHYSICS HONORS, 11-12, 1 year, 1 credit

Prerequisites: Biology 420/425, and students should also have successfully completed (or be enrolled in) Algebra II (see Honors Policy).

Commitment: This is a single period, MATH INTENSIVE, problem-solving course for any Honors student with a serious interest in mathematical problem solving and the physical sciences.

Description: Students in this course will use the modeling method to develop a more coherent and systematic understanding of physics. Students will investigate various physical phenomena in the laboratory, developing

mathematical models to solve various problems and explain new physical situations. Topics to be discussed will focus on mechanics, including motion, forces, momentum, energy and energy transfer, and rotational dynamics. Student evaluation will be based primarily upon student participation, presentations, formal laboratory reports, group projects, and tests.

436/438 FORENSICS I & II, 11-12, 1 semester for ½ credits, (2 semesters, 1 credit)

Prerequisite: Biology 420/425/452. 436 is NOT a prerequisite for 438, but is strongly recommended.

The forensics course may be taken in the fall and/or spring semester(s). It will incorporate skills acquired in biology, chemistry, and physics while learning techniques used by FBI and local police crime scene technicians. Topics covered will include: the history of forensics, crime scene analysis, physical evidence, famous cases, hair and fiber analysis, fingerprinting, DNA, foot and tire prints, fingerprinting, chemical detection, blood analysis and patterns, ballistics, handwriting analysis, facial reconstruction, anatomy, and fire and accident reconstruction. Along with hands on labs skills, students will be solving mock crimes, requiring students to think, analyze and imagine possible scenarios. Students will be required to work individually on research projects and in teams when analyzing mock crime scenes.

443 FUNDAMENTALS OF CHEMISTRY, 11-12, 1 year, 1 credit

Prerequisites: Biology 452/420

This is a single period laboratory course for any student with an interest in chemistry, but by itself it is not intended to prepare students for college level chemistry. Through laboratory investigations, readings and discussions, students will explore chemistry as it relates to everyday life. Topics will include water chemistry, bonding and reactions, acids and bases, toxins, and chemistry of food.

442 WORLD OF CHEMISTRY COLLEGE PREP, 11-12, 1 year, 1 credit

Prerequisites: Biology 420/425 and Algebra I

Commitment: This is a single period laboratory and math intensive course for any student with an interest in chemistry. Students should be comfortable with Algebra and problem solving.

Description: Students in this course will learn the principles of chemistry through a mixture of laboratory, discussion, team-learning, and lecture formats. Topics covered include atomic structure, the states of matter, chemical names and formulas, chemical reactions, stoichiometry, the nature of energy, gas laws, electron structure and bonding, solution chemistry, and acids and bases. Laboratory investigations and reports will review and reinforce material covered in the class. Student evaluation will be based primarily upon classroom participation, laboratory participation and reports, group work, quizzes, and tests.

445 CHEMISTRY HONORS, 11-12, 1 year, 1 credit

Prerequisites: Biology 420/425. Students should also have successfully completed Algebra I.

(see Honors Policy)

Commitment: This is a single period laboratory problem-solving course for any Honors student with a serious interest in chemistry. Students enrolled in this course should be very comfortable with Algebra.

Description: Students in this course will learn the principles of chemistry through a mixture of laboratory, discussion, and lecture formats. Topics covered include atomic structure, chemical names and formulas, chemical reactions, stoichiometry, the states of matter, gas laws, electron structure and bonding, solution chemistry, reaction rates and equilibrium, acids and bases, oxidation-reduction reactions, electrochemistry, and organic chemistry. Laboratory investigations and reports will review and reinforce material covered in the class. Student evaluation will be based primarily upon classroom participation, laboratory participation and reports, group projects, quizzes, and tests.

454 SCIENCE THROUGH TECHNOLOGY, 11-12, 1 year, 1 credit

Prerequisites: Biology 420/452

This course is divided into four units of work over the two semesters. The program is an activity based course that will give the student technological experiences in the areas of solar energy, fluid energy, electrical and mechanical energy. Students will study scientific principles in these areas and then put these ideas into application through technological activities and working models constructed by the students.

458/459 THE MAINE ENVIRONMENT I and II, 11-12, 1 semester for ½ credit (2 semesters, 1 credit)

Prerequisite: Biology 420/425. (Note: 458 is not a prerequisite for 459 but is strongly recommended.)

This course is an introduction to Maine wildlife and ecology. Topics to be covered include wildlife identification and behavior, botany, habitat analysis, tracking, wildlife and forest management, and the relationship between humans and the environment. Lab and field activities are important components of this course.

465 AP ENVIRONMENTAL SCIENCE, 11-12, 1 year, 1 credit

Prerequisite: Biology 420/425 and Algebra I (See Honors Policy)

This is a rigorous five-period/week interdisciplinary course that explores the interconnections between the physical environment and living organisms, the impact of human activities on our planet, and our choices for the future. Topics to be covered include population dynamics, pollution, climate change, renewable and nonrenewable resources, risk assessment, and solutions to environmental problems. Labs and field activities are designed to encourage students to critically observe environmental systems, develop and conduct well-designed experiments, and analyze and interpret data.

437/439 MARINE SCIENCE I & II, 11-12, 1 semester for ½ credits (2 semesters, 1 credit)

Prerequisite: Biology 420/425. 437 is NOT a prerequisite for 439.

The marine science course may be taken in the fall and/or spring semester(s). Students will be building on information learned in biology and chemistry and will be required to complete independent presentations as well as read at an independent level. It will incorporate marine biology, marine geology, and oceanography, including: the study of organisms and their environment from the high water mark to the deep oceans and their interactions and classification, examination of how coastlines are created and how they change over the course of the years and seasons, exploration of ocean currents, tides, coasts, salinity and ocean chemistry, sediments, continental margins and ocean basins, tsunamis, ocean bottom exploration, marine resources, environmental concerns, atmospheric and ocean circulation and weather phenomena created by the oceans.

SECTION V

WORLD LANGUAGES

501/502 LATIN FOUNDATIONS OF ENGLISH, 9-12, 1 semester, ½ credit

Prerequisite: None

This course will teach elementary Latin grammar, with emphasis on parts of speech, syntax, and vocabulary roots. Students will practice what they are learning by reading brief adaptations of Roman myths. The class would be good preparation for students who intend to study a European language, or who simply want to strengthen their understanding of English grammar and significantly improve their vocabulary resources.

510 FRENCH I, 9-12, 1 year, 1 credit

This course is designed to encompass the four areas of language learning: reading, writing, listening and speaking, with an emphasis on orally directed questions and answers, paired activities and small group work. The textbook, *Bon Voyage*, weaves Francophone culture into the course and also has a video and audio program. This course gives a solid foundation in order to continue studying French.

520 FRENCH II, 9-12, 1 year, 1 credit

Prerequisite: French I

This is a continuation of French I, focusing primarily on building a basic French vocabulary and familiarity with simple grammatical structures while the class continues to explore Francophone culture from around the world.

525 FRENCH II HONORS, 9-12, 1 year, 1 credit

Prerequisite: French I (see Honors Policy)

Similar to French II this course covers the same topics in more depth, and is faster paced for the motivated language learner.

535 FRENCH III HONORS, 10-12, 1 year, 1 credit

Prerequisite: French II

The focus of this course is to provide the fundamentals of French grammar as well as an introductory to French literature. Throughout the year the students learn the major tenses and grammatical constructions that have not already been covered in their previous two years of study. They will also be introduced to a variety of short stories and poetry, and will be writing in these mediums as well.

555 FRENCH IV HONORS, 11-12, 1 year, 1 credit

Prerequisite: French III Honors

The highest level of French currently offered at GSA, French IV focuses on speaking, listening, reading and writing. The textbook, *Tresors du Temps*, leads students through a comprehensive grammar review, and also examines French history starting with prehistory. Each unit ties visual arts as well as samples of major French literary works. Students are responsible for discussions and numerous essays written on topics presented in the text.

512 SPANISH I, 9-12, 1 year, 1 credit

This course is designed to encompass the four areas of language: reading, writing, listening, and speaking, with an emphasis on orally directed questions and responses. This course moves at a relaxed pace with much repetition to insure that students have a solid base for continuing Spanish studies. An introduction to Spanish-

speaking countries is presented, with an emphasis on Mexico and Spain. Students are encouraged to recognize and appreciate the contributions of Hispanic culture to our society. The primary text is *Bienvenidos* with videos, tapes and authentic realia supplementing the program. Students will work on numerous projects and skits throughout the year. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

522 SPANISH II, 10-12, 1 year, 1 credit

Prerequisite: Spanish I

Spanish II builds upon the acquired skills of Spanish I. Students write dialogues and compositions with moderately complex syntax, grammar, and vocabulary. Proficiency continues to grow in reading, writing, listening, and speaking skills. Two required research papers this year focus on Central and South American studies. The primary text is *Bienvenidos* with videos, tapes and authentic *realia* supplementing the program. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

575 SPANISH II HONORS, 10-12, 1 year, 1 credit

Prerequisite: Spanish I (see Honors Policy)

Spanish II Honors contains the same elements as the Spanish II program but moves at an accelerated rate. The text, *Bienvenidos*, is completed and accompanied by readings from the text *Vistazos I*. Four projects are required in the following areas: traveling to a ski resort and a beach resort in a Spanish-speaking country, designing a movie poster, and creating a clothing catalogue.

532 SPANISH III, 11-12, 1 year, 1 credit

Prerequisite: Spanish II

Spanish III students continue to practice acquired skills with emphasis on accurate pronunciation, increased reading, and more lengthy compositions and dialogues. More complex syntax, grammar, and vocabulary are studied here. Historical and cultural study is advanced through two required papers on Spain and Mexico. The text *Abordo* is used with videos, tapes and authentic *realia* supplementing the program. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

585 SPANISH III HONORS, 11-12, 1 year, 1 credit

Prerequisite: Spanish II (see Honors Policy)

Same as Spanish III but accelerated to provide greater proficiency in reading, writing, listening, and oral skills. Listening proficiency is further enhanced through a video program, “*La Catrina* (Part I).” A workbook accompanies this “telenovela” on Mexico and the Mexican Revolution. Reading and writing skills continue to be strengthened through the text *A Bordo* as well as the *La Catrina* workbook. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

546 SPANISH IV, 11-12, 1 year, 1 credit

Prerequisite: Spanish III

This class is conducted primarily in Spanish to maintain speaking and listening proficiency. Listening proficiency is further enhanced through a video program, “*La Catrina*.” A workbook accompanies this “telenovela” on Mexico and the Mexican Revolution. Reading and writing skills continue to develop through the text, *Segundo Libro* as well as the *La Catrina* workbook. A novel by a Latin American author is required,

followed by an oral presentation in a relaxed, book club setting. A verb list project completes the year and may accompany students to college. Videos, tapes and authentic realia supplement the texts. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

595 SPANISH IV HONORS, 11-12, 1 year, 1 credit

Prerequisite: Spanish III (see Honors Policy)

This class is conducted primarily in Spanish to maintain speaking and listening proficiency. Listening proficiency is further enhanced through, “La Catrina Segundo,” the sequel to the video program seen in Spanish III Honors. Reading and writing skills continue to solidify through the text *Susana y Javier en España*. This advanced reader follows two Spanish professors through their travels of significant cultural and historical sites in Spain, and allows the student to become well acquainted with Madrid and northern Spain. This text stretches the student’s knowledge of the language through many grammatical and vocabulary activities. A novel by a Latin American author is required, followed by an oral presentation in a relaxed, book club setting. A verb list project completes the year and may accompany students to college. Videos, tapes and authentic *realia* supplement the texts. Hispanic Culture Week, held in the spring, includes speakers from the community, faculty, and students sharing their travel experiences, heritage and culture.

560/561 CONVERSATIONAL SPANISH, 11-12, 1 semester, ½ credit (or 2 semesters/1 credit)

Prerequisite: Completion of Spanish II.

This class is a new offering in its second year. The concentration here is on conversing in a relaxed environment, and the students are encouraged to communicate without worrying about making grammatical errors. As we progress through the year, grammar and verb tenses are reviewed or taught to enable the students to communicate with increased clarity, and vocabulary is continually added using the text: Spanish For Mastery 3. Communication in class occurs through orally sharing newspaper and magazine articles as a class, talking about favorite topics one on one, cooking together or visiting a Mexican restaurant where all must speak only Spanish, and finally, designing individual city maps to use for asking and giving directions in the Spanish “command” form-to name a few examples. Students have also invited Spanish speaking guests to join the class on occasion. The objective is to feel comfortable about using the target language with peers, and to progressively sustain communication over a longer period of time with increased proficiency.

SECTION VI

ART/FINE ARTS

935 AP DRAWING, 11-12, 1 year, 1 credit

Prerequisite: 951/945, 955, 956/957, and teacher permission

AP Drawing is one of the four courses offered in the arts by the College Board and contains elements from the disciplines of drawing, painting and printmaking. This course allows students to complete a freshman college introductory course while still in high school. The centerpiece of the course is the portfolio review which is based upon the following: Section I Quality will require students to submit 5 actual pieces of work for evaluation; Section II Concentration asks for students to create an in-depth, individual project on a single artistic concern which will then be represented through 12 slides as well as a brief written statement about the project and; Section III Breadth requires a sampling of pieces to demonstrate a wide range of artistic experience

both in subject and in medium, also represented by 12 slides. All in the entire portfolio will consist of 5 actual works and 24 slides to be submitted in May and returned to students in early July. As daunting as all this may sound, students who have met the prerequisite will already have a body of work to draw upon when they begin the class in the fall. The timetable of the class will be complete the Breadth section during the fall semester and to complete some pieces that can be submitted for the Quality section. Beginning the second semester, each student will then commence to work independently upon their self-chosen Concentration. Students who successfully pass the AP College Board exam may receive an Advanced Placement credit in art, which may translate to 1 college credit. All students enrolled in the class will be expected to take the exam as part of the course curriculum.

936 ART HISTORY HONORS, 11-12, 1 year, 1 credit

Prerequisite: Honors policy

Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students will examine major forms of artistic expression from the past and the present from a variety of cultures. They will learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. No prior experience in art history is assumed for those students who take the course. Students who have done well in other courses in the humanities, such as history and literature, or in any of the studio art courses are especially encouraged to enroll. While the course does not assume prior training or seek primarily to identify students who will major in art history in college, it does require a high degree of commitment to academic work and to the purposes of a program designed to meet college standards.

943 PRINTMAKING, 10-12, 1 year, 1 credit

Prerequisite: Art I

Printmaking will provide students with the opportunity to sample different methods of printing such as engraving, relief printing techniques and various mono-print techniques. For some techniques, students would be expected to create editions, whereas for others, there will be more emphasis on spontaneous experimentation. Different projects will require students to work in both black/brown inks and in full color. Students should have an interest in drawing and be willing to work on a project for several weeks.

950 PHOTOGRAPHY I, 10-12, 1 semester, ½ credit

Prerequisite: None.

This course is a general introduction to black and white photography and the 35mm camera. The acquisition of darkroom skills, familiarity with the camera and its mechanical functions, and an understanding of what makes a good photograph will be emphasized. The lab fee is \$5.00 per student and students are also required to buy their own paper and film. Typically the total cost for each student is \$35.00-\$50.00 per semester.

951 ART I, 9-12, 1 year, 1 credit

This is the first in a series of courses in art education. Students are introduced to the elements of design (line, shape, form, space, texture, value, and color) and the principles of organization (balance, repetition, harmony, emphasis, sequence, and perspective) with the intent of building skills and increasing artistic appreciation. In-class projects emphasize techniques and provide students with varied tasks for solving problems, while introducing them to a variety of media. Major assignments are followed by class critiques, enabling students to participate in the assessment of their own work as well as that of others. Students are expected to keep a

sketchbook to be used for homework assignments and free drawings. Midterm and final exams will be given as well as one paper. Projects may vary from year to year.

953/954 PAINTING A and B, 10-12, 1 semester, ½ credit (or 2 semesters/1 credit)

Prerequisite: Art I

Painting class begins with a review of color theory and fundamental color exercises. Basic painting techniques are taught, introducing students to the palette knife, different brushes and brush techniques. Students will be asked to paint on a variety of surfaces and will learn how to stretch and prepare a canvas. Emphasis is placed on techniques of acrylic, oil, egg tempera, and watercolor. An examination of the works of some well-known painters helps to clarify and compare different styles and techniques.

945 ART I HONORS, 9-12, 1 year, 1 credit,

This course is for students who have a strong interest in the arts, who plan to take an AP Studio course during their junior year in high school, as well as for any student who plans to study art in college and will need to create a comprehensive portfolio. It will be followed by Art II Honors. Art I Honors will introduce students to the elements of design and the principles of organization through a series of in-class projects with the intent of building skills and increasing artistic appreciation. In-class projects will emphasize techniques and provide students with varied tasks for solving visual problems, while introducing them to a variety of media. Topics in art history and works of specific artists will be examined. Major assignments will have specific deadlines and may be followed by class critiques and exams. Students will be required to keep a sketchbook for weekly assignments. Midterm and final exams will be given and students will be expected to write a paper.

955 ART II HONORS, 10-12, 1 year, 1 credit

Prerequisite: Art I Honors or Art I (See Honors Policy)

Students in Art II Honors will work both two and three dimensionally, preparing for a comprehensive AP studio art curriculum their junior year. Working at a more intensified pace to specific deadlines and written assignment requirements, students will be expected to write papers, take exams and prepare a catalog for an exhibition of their own prints. Sketchbook requirements will be at least one, sometimes two per week. This course is for students who are serious about their commitment to the arts.

956/957 DRAWING A and B, 10-12, 1/2 year, ½ credit (or 1 year, 1 credit)

Prerequisite: Art I

Students will explore techniques in drawing, using pen and ink, pastel, Conte crayon, pencil, charcoal, and combined media. Working with both line and value, students will develop complex compositions, where they establish dimension as well as depict detail. Assignments will be given to develop specific skills, while at the same time allow for individual expression. Sketchbook assignments will be given in conjunction with in-class assignments, and at least ten free drawings will be due each quarter. Class assignments will include landscape, portrait, illustration, still life, transitionals, and contour among others. It is highly recommended that prospective students have a clear interest in drawing.

958 BAND, 9-12, 1 year, 1 credit

The George Stevens Academy Band is a very active, growing organization, which performs at a variety of events during the school year. Activities include concerts in the fall, winter and spring as well as performances at the elementary schools, parades, basketball games, District and State Music Festivals, various school activities, and community events. Music selections vary from rock to classical and rehearsals provide challenges and enjoyment in the making of music.

Other music ensembles, to which inclusion into the Band may lead, are the Jazz Band (selected through yearly spring auditions, which are also open to incoming freshmen), jazz combos and the Honors Combo (both of which require annual auditions), the “Holiday Angels” (a group of student musicians who perform seasonal music in December) and the Chamber Music Ensemble.

960 PHOTOGRAPHY II, 10-12, 1 semester, ½ credit

Prerequisite: Photography I

Photography II will continue where Photography I left off. Students will explore alternative photographic methods such as hand-coloring photos, using liquid emulsion on different mediums, and manipulative darkroom techniques. Emphasis will be placed on creating and displaying high-quality photographic images as finished products that are portfolio ready. Critique of the works of others will also be a focus. The lab fee is \$5 per student, and students are required to buy their own paper and film. Estimated cost per semester is \$35 to \$50.

961 MUSIC THEORY, 9-12, 1 semester, ½ credit

Prerequisite: None

Students will learn the fundamental aspects of Music Theory while learning to play a synthesizer keyboard (keyboards will be provided). The study of chords will also be emphasized. A survey of popular, jazz and classical music will deal with the history and form of music. The class is limited to twelve students per semester.

962/965 CHAMBER MUSIC FOR STRINGS, 9-12, 1 semester, ½ credit or 2 semesters, 1 credit

Prerequisite: By audition

The aim of this course is to work in a concentrated manner in smaller groups, primarily for quartet or trio, on the valuable music of composers such as Haydn, Mozart, Bach and Handel. Beyond simply becoming familiar with the works, we will spend time working on the things that are specific to playing in a small chamber ensemble. These skills will focus on learning how to better listen, how to synchronize with other players and how to express a musical idea. I believe firmly these are things useful in any sort of playing, classical or otherwise, as well as outside the specific realm of music. For this to be possible, it is hoped that those taking part will already play their instrument with some comfort, so we can spend the time working on aspects of the music beyond simply learning the notes. Some of the shape of the course, such as the make-up of the groups and the scheduling, will depend entirely on the number of students expressing interest, their instruments, and their particular schedules. However, depending on the number of groups, it is the intent to meet with each group at least once per week and prepare a section of music for eventual performance.

964 JAZZ COMBO HONORS, 10-12, 1 year, 1 credit

Prerequisite: By audition (spring prior to the school year)

Honors Jazz Combo will focus on the study and performance of jazz, in its various styles such as Swing, Latin, African, Funk, Jazz-Rock and the Ballad. Past Jazz Honors Combos have achieved many awards, winning placement in the State Jazz competitions for the past ten years and winning state championships each year from 1998-2006. Additionally, members of the Jazz Honors Combo have competed successfully in the Berklee College of Music HS Jazz Festival in Boston, Massachusetts which is a nation-wide competition representing some of the best bands from each state. The Honors Combo is also asked to perform at many school, community and prestigious state events. Being a member of the Honors Combo requires a high level of commitment from its members. Many of the former members have majored in music and become successful musicians.

970 ACTING I, 9-12, 1 semester, ½ credit

This course introduces the student to the basic components of drama: voice, stage movement, character, and stagecraft. Students will explore these elements through improvisation, dramatizations of published plays and self-created scripts. Students will also be introduced to theatre as an integrated art form by exploring the other elements of theatre such as costumes, sets, and lighting.

980 INTRODUCTION TO DANCE, 9-12, 1 semester, ½ credit

Prerequisite: 1 semester of Physical Education

This is a class that can be taken for a physical education credit or for a fine arts credit. Students dance in the studio where they develop their body awareness through application of dance techniques and lessons. Students learn and create dances in class. They experiment with, understand and control the elements of dance for artistic expression and create their own dance compositions which they present to their classmates. They are introduced to some reasons why cultures and people create dance; they also look at some historical, cultural and aesthetic forces that have fused dance traditions from different parts of the world and consider the influences of historical dance forms on contemporary styles.

944 BOOK ARTS, 10-12, 1 semester, ½ credit

Prerequisite: Art I

Book Arts or “Artist's Books” is an emerging field in which the book has been freed from its more traditional role as a container of information and instead becomes the art form. Whether or not the book also contains information, is no longer more important than the book's structure and the sequencing of how the information is presented. In this class, students will learn a variety of book structures, such as the accordion, tunnel and flag books (to name a few) and explore how these structures allow a more “visual” experience. Students will also have the opportunity to incorporate their writing; however, the way the writing is presented will vary. Some of the projects will be directed towards understanding the role of technology in book arts and will incorporate the use of scanners, typography, computers and digital images. Students will also explore types of papers, inks, simple printmaking techniques and paste made papers.

9400/9420 EARTHWORKS I / EARTHWORKS II, 9-12, 1 semester or 1 year, ½ credit or 1 credit, Pass/Fail

Prerequisite: None

These courses are intended for the student who wants to broaden his/her experience in various art mediums. The courses are a result of George Stevens Academy's involvement with the Haystack Mountain School of Crafts Institute and are designed to be an extension of that program. Earthworks I will concentrate on jewelry and wood sculpture. Earthworks II will focus on blacksmithing and clay. (Earthworks I is not required to precede Earthworks II.) Each course meets one-half of the Fine Arts requirement.

9620 STEEL BAND I, 9-12, 1 semester, ½ credit, Pass/Fail

Island music and the Steel Drum are a vital part of the history and culture of the Caribbean, and are important newcomers on the world music scene. Students in this course will learn to play “pan” —the steel drum family of instruments— and perform as an ensemble, or steel band. While prior musical experience is certainly an asset, it is not at all a prerequisite for this course; the instruments are relatively easy to learn to play. The primary objective of the course will be to make music, and in the process there will be instruction in basic music notation, rhythm, harmony, and four-part arranging, and discussion of the construction and cultural background of the instruments. This course meets one-half of the Fine Arts requirement. Enrollment is limited to 12 students.

9630 STEEL BAND II, 9-12, 1 semester, ½ credit, Pass/Fail

Prerequisite: STEEL BAND I

This class will continue where Steel Band I left off.

9635 CREATING MUSIC, 9-12, 1 semester, ½ credit, pass/fail

“Creating Music” is a new music composition class where students will learn how to “mix their own colors,” musically speaking. Working with music theory, composition and original student pieces, students will create original music by realizing and exploring how different types of music are created. This class is for those students who have taken a music class at GSA or have studied an instrument before. Most of the work will be done in class, but there will be time required outside of class where students will need to work on their own. At the end of the semester, there would be performance of some of the students' compositions.

9640 CHORUS, 9-12, 1 semester, ½ credit, Pass/Fail

Prerequisite: None

The George Stevens Academy Chorus is a regularly scheduled class that rehearses during the school day, and is open to any student, male or female, who enjoys singing. Students will learn and practice proper vocal technique. Emphasis will be placed on musical elements such as music theory, music history, and sight-reading music. Students will study and sing a variety of musical forms from different cultures and time periods. The GSA Chorus presently performs in the Holiday and Spring concerts but other performances may be included as well.

SECTION VII INDUSTRIAL TECHNOLOGY

811 WOODWORKING I, 9-12, 1 semester, ½ credit

Prerequisite: None.

Woodworking 1 can be followed by Woodworking II. This course covers the safe use and care of hand and power tools. Students make assigned projects in wood with emphasis on accuracy, safety and a finished quality.

830 WOODWORKING II, 9-12, 1 semester, ½ credit

Prerequisite: Woodworking I.

Woodworking II can be followed by Advanced Woodworking with permission of instructor. This course is a continuation of Woodworking I with much more emphasis placed on the design, construction, and completion of assigned projects. Safety and housekeeping are stressed. Students will pay for projects materials not found in the shop.

839 HOME RENOVATION, 10-12, 1 semester, ½ credit

Prerequisite: None

Students who enroll in this course will be involved with the design and renovation of an actual home here in Blue Hill. Most areas of interior design and building construction will be covered. All classes and work will be done on actual site.

838 RESIDENTIAL CONSTRUCTION, 11-12, 1 Semester, ½ credit

Prerequisite: None.

In this course students will become familiar with basic construction techniques from asphalt shingles to z flashing. Emphasis is placed on accuracy in cutting and assembly, safety in the work place, and proper attitudes towards one's own work and the work of others. Each student will participate in the design and construction of an 8' x 10' storage shed.

840 HOME REPAIR & MAINTENANCE, 10-12, 1 Semester, ½ credit

Prerequisite: None.

This course will provide students with the basic information needed to safely use hand tools, power tools, some machines, and assorted building materials. This program will give students hand-on activities to learn about repairs and maintenance necessary in the areas of cutting tools, plumbing, electrical wiring, masonry, painting and finishing, and general lawnmower service.

841 DRAFTING, 9-12, 1 semester, ½ credit

Prerequisite: None.

This course introduces a student to the basic use of the tools used to design any product made by mankind. You will learn how to set up basic lettering used in any graphic communication, develop pictorial drawings, pattern development, multiview drawings and dimensioning. During this course, students will do activities using CAD (Computer Assisted Drawing) and plotting to make final drawings. Architectural drafting may follow this course.

842 ARCHITECTURAL DRAFTING, 11-12, 1 semester, ½ credit

Prerequisite: Computer Literacy and Drafting or Art I

This course will give students a basic understanding of good house design. Each student will develop a full set of house plans and will build a scale model from their plans. This course meets one-half of the Fine Arts requirement.

843 ADVANCED WOODWORKING, 12, 1 semester, ½ credit

Prerequisite: Woodworking I and II and permission of the instructor.

This is a contract course. Students who enroll will design and construct their own project. Emphasis is placed on good design principles, quality of workmanship, and proper work habits. Students must pay for their own supplies.

870 THE ART OF GUITAR MAKING, 10-12, 1 semester, ½ credit

Prerequisite: none

Each student will design and make a solid body electric guitar. Wood for the guitar's neck and body will be supplied as part of the course. Students are responsible for the cost of ALL other guitar components. Woodworking experience will be helpful, but it is not a requirement.

850 INTRODUCTION TO TECHNOLOGY, 9-12, 1 semester, ½ credit

Prerequisite: None

This course will acquaint the student with our ever-changing technology in the processes centered around communication, manufacturing, construction, transportation and energy and power systems. A problem will be given to the students such as design a camping and hunting seat that is portable and can be easily carried anywhere. Through this program students will keep learning about new developments in materials, processes

and systems of today's technology. This course will allow the student to design and plan a product. Through the use of a band saw, gas and arc welding equipment, shearing equipment, benders and molding equipment, they will shape and assemble their materials into the finished product.

851 MANUFACTURING TECHNOLOGY, 9-12, 1 semester, ½ credit

Prerequisite: None

A problem will be given to students to solve and develop a product that will include processes of study in pattern making and casting, machining using lathes, milling machine and drill press, fabrication by brazing, spot, stick, TIG, and MIG welding. Students will use techniques of production that use individual and group teams to solve manufacturing a product.

852 DESIGN TECHNOLOGY, 9-12, 1 semester, ½ credit

Prerequisite: None

This course counts as a Fine Arts credit and will introduce students to the principles of design used in construction, manufacturing and communication areas of technology. Students will use problem solving techniques that will help them understand how to sketch, draw, form and shape materials. The student will learn how to use cutting, welding, forming, machines and tools to design model cars, boats, rockets, sleds and other similar products.

853 TECHNOLOGY INDEPENDENT PROBLEM SOLVING, 11-12, 1 semester, ½ credit

Prerequisite: None

This course is designed for students who are highly motivated to learn about the real world of invention through the processes of technology. The student and the instructor will talk over ideas relating to the activity that he or she would like to learn more about. The student will do research through books, magazines, people, movies or other means, and will solve the activity by developing a model or real life size proto-type to demonstrate the selected idea or problem.

855 ENERGY AND POWER TECHNOLOGY, 10-12, 1 semester, ½ credit

Prerequisite: Introduction to Technology

This program will introduce the student to principles of mechanical, electrical and fluid power sources used today. Problems will be solved in areas of energy sources of the future like wind, water, solar, geothermal, biomass, air and liquid fluid systems. You will understand how these technologies are used to generate energy and power sources needed for our future.

856 ENGINE TECHNOLOGY, 10-12, 1 semester, ½ credit

Prerequisite: None

This course will acquaint the student with the basic principles involved in an external and internal combustion engine. The program is set up to enable students to learn how each system of an engine operates, through lab experiences on two and four cycle engine principles, carburetion, ignition, cooling, lubrication and overhaul. The student will become aware of how vehicles using gasoline, diesel, propane, jet, turbine, rotary and rocket engines basically operate.

857 TRANSPORTATION TECHNOLOGY, 11-12, 1 semester, ½ credit

Prerequisite: None

This course will introduce students to the basic mechanical principles of any device that travels over water, land, air or space. Students will learn how to solve some of the technological problems by sketching, drawing, planning a vehicle like a paddleboat, wheeled vehicle like a go-cart, or a remote controlled wheeled vehicle. These vehicles may be mechanically, electrically or hydraulically powered. They will also learn about the necessary processes of bending, forming and assembling necessary to connect and finish the vehicle. This will be a group activity and the final product will be auctioned off or sold at the conclusion of the semester.

860 SENIOR SEMINAR BOATBUILDING, 12, 1 semester (spring), ½ credit, limited enrollment

“Nothing, absolutely nothing, conveys the joy of being afloat quite so purely as a light paddling boat.”

-- *Tim Farrar*

Inexpensive to build, using common tools and materials, this canoe is constructed from a single sheet of 4 x 16' marine plywood and a few pieces of dimensional lumber. Students are assumed to have no prior boat-building experience, but need to demonstrate ability to follow directions and learn how to handle simple tools. Students must pay for all materials.

861 INVENTION THROUGH TECHNOLOGY, 11-12, 1 semester, ½ credit

Prerequisite: None

This course is a problem-solving course that presents the student with ideas to solve for an invention. Students will work in small groups or by themselves to research, plan and solve an invention of a usable product.

862 C.A.D. ENGINEERING DESIGN, 10-12, 1 semester, ½ credit

Prerequisite: Computer Literacy, Drafting, or Instructor Approval

This course will give a student the fundamentals of computer-assisted drawing. The areas covered will be basic set-up, pictorial drawings, two and three view drawings, dimensioning, mechanical drawings and products used in industrial designs. Students will be allowed to design their own product ideas.

SECTION VIII COMPUTER TECHNOLOGY

53 WEB PUBLISHING, 9-12, 1 semester, ½ credit

Prerequisite: Computer Literacy

Creating web pages using HTML and Java programming languages. A semester course exploring the different ways to create web pages. Includes instruction in use of frames, image maps, forms, and Java Applets. Create both your own pages and update and maintain the GSA homepage.

55 COMPUTER LITERACY/KEYBOARDING, 9-12, 1 semester, ½ credit

Prerequisite: None

Computer Literacy/Keyboarding is designed to teach alphabetic keyboard techniques by touch in the first quarter. The second quarter incorporates keyboarding with an introduction to computers using Microsoft Works, MacPaint, and the Internet. Students will be introduced to word processing, which will enable them to write and edit their papers for school and personal use on the computer. Students will receive an introduction to

computerized databases. They will develop a series of databases, and then process the information in different ways. Students will learn how to merge databases into word processing documents to create form letters. Students will receive an introduction to spreadsheets, and learn how to set up their own spreadsheets. Students will be introduced to computer graphics using MacPaint. The World Wide Web, Telnet, E-Mail, and FTP will be some of the topics covered on the Internet.

56 DESKTOP PUBLISHING, 9-12, 1 semester, ½ credit

Prerequisite: Computer Literacy

Using PageMaker and Adobe Freehand, students will be learning to create a number of GSA publications. Some possibilities include programs for sporting events and drama productions, *GSA Matters*, a school newspaper, and computerization of the yearbook.

58 COMPUTER APPLICATIONS, 9-12, 1 semester, ½ credit

Prerequisite: Computer Literacy

An open-ended class where a number of topics could be addressed depending on the class. Possibilities include use of Excel, desktop publishing, HyperCard, programming, HTML, and Adobe Photoshop.

51 INTRODUCTION TO COMPUTER PROGRAMMING IN JAVA, 9-12, 1 semester, ½ credit

Prerequisite: Computer Literacy

Computer programming involves the understanding of programming language concepts and how they are applied to problem solving. Programming equips students with skills, which involve more than the syntax of a programming language. Computer programs are a form of communication. When developing program solutions, students consider clarity of expression, program maintenance, ease of debugging, program extension, reliability, utility and validity. These concepts will be taught by learning to program in Java an object oriented programming language and currently the language being used for AP programming at the high school level.

52 INTRODUCTION TO VIDEO TECHNOLOGY, 9-12, 1 semester, ½ credit

Prerequisite: Computer Literacy

Video production is probably the most universally known of all visual media and is an integral component of many technology applications. The process of editing creates a mood, tempo, and pace to enhance the subject matter. Video production is not only instructional and analytical, but also artistic. Students will learn video basics as well as participate in pre-production, production and post-production stages of video creation distribution, and evaluation.

SECTION IX

BUSINESS EDUCATION

625 RECORDKEEPING, 10-12, 1 year, 1 credit

Prerequisite: None.

Recordkeeping is designed for the business student or for any student who would like these skills for personal use. This course teaches such topics as checking accounts, banking services, personal and organization records, household records, taxes, insurance, payroll accounts. Other topics will be included if time permits. The arithmetic necessary for these records will be reviewed and stressed throughout the course.

631 ACCOUNTING, 11-12, 1 year, 1 credit

Prerequisite: None.

Accounting is a must for students considering a career in business. This course will also give students a head start in any college accounting course. Accounting introduces and familiarizes students with Balance Sheets, Journals, Ledgers, Worksheets, and formal financial reports. Accounting helps the students appreciate the differences between sole proprietorships, partnerships, and corporations. This course will enable students to appreciate the need for accurate records.

SECTION X

HEALTH AND PHYSICAL EDUCATION

980 INTRODUCTION TO DANCE, 9-12, 1 semester, ½ credit

Prerequisite: 1 semester of Physical Education

This is a class that can be taken for a physical education credit or for a fine arts credit. Students dance in the studio where they develop their body awareness through application of dance techniques and lessons. Students learn and create dances in class. They experiment with, understand and control the elements of dance for artistic expression and create their own dance compositions which they present to their classmates. They are introduced to some reasons why cultures & people create dance; they also look at some historical, cultural and aesthetic forces that have fused dance traditions from different parts of the world and consider the influences of historical dance forms on contemporary styles.

996 PHYSICAL MANAGEMENT, 9-12, 1 year, 1 credit OR 1 semester, ½ credit

Prerequisite: None

Physical Management will give students exercise and nutrition information for a lifetime change in health. The topics covered in this course will be nutrition education and weight control, physical conditioning, behavior change and positive image building. Students will be expected to participate in in-class aerobic exercise sessions at least three times a week. This course may be taken one semester for ½ credit, but instructor prefers one year for better results. This course satisfies the Physical Education credit.

997 EXPERIENTIAL EDUCATION & OUTDOOR LEADERSHIP, 10-12, 1 semester, ½ credit

Prerequisite: 1 semester of P.E.

This course is designed to enrich the intellectual, social, emotional, and physical growth of students by utilizing a wide range of content areas (see list) and incorporating the natural resources and opportunities of the Blue Hill Peninsula, Acadia National Park, and the State of Maine into the daily class experience. Through class instruction and content, student journals/portfolios, guest speakers, group projects, field trips, and willingness to be pioneers in this new course, students will develop the following areas:

- Interpersonal skills such as leadership, communication, trust building, and group problem-solving and decision-making;
- Knowledge about a wide range of related topics;
- Build confidence and self-esteem by facing new challenges and adversity;
- Develop life-long skills such as planning and organizing field experience, orienteering, and first aid/CPR.

- Provide added purpose, relevance, connections, motivation for classroom work;
- Continue to develop a student's reverence for life, nature and our role as stewards.

This course is structured around the seasons and semesters of the school year. Each semester is independent of each other. Students will have the unique experience of developing the direction of the course and its content. The success of the course will largely be dependent on the hard work, positive attitude, and assumed responsibility and cooperative leadership of the class.

998 HEALTH, 9-10, 1 semester, ½ credit

Prerequisite: None

The goal of Health class is to help students achieve overall well being: mental, physical and social. Classes offer up-to-date information in the six interrelated content areas: health and the mind; personal health care; the life cycle; the role of drugs; disease; and health and society. In each area the class stresses the active role of the individual and provides, whenever possible, practical techniques that students can use to achieve positive changes.

999 PHYSICAL EDUCATION, 9-12, 1 semester, ½ credit

Prerequisite: None

In the fall semester of Physical Education, students will be introduced to lifetime activities such as: archery, pickle ball, volleyball, aerobics, and weightlifting. The spring semesters bring indoor soccer and floor hockey for team sports as well as tennis, aerobics, and weightlifting for lifetime activities. The primary goals of this course are to introduce students to a wide variety of activities in an enjoyable atmosphere, which will be of benefit to them beyond the high school years. Students are required to enroll and receive a passing grade in Physical Education for at least two semesters for one credit. Students may take P.E. up to four semesters for a maximum of two credits. Students can be excused from this requirement only for permanent medical reasons. For temporary medical excuses, classes will be made up.

995 Advanced Fitness Training, 10-12, 1 semester, ½ credit

Prerequisite: 1 credit of PE

This course is designed for students to explore different methods of fitness training for athletics. The class will stress the importance of a year round fitness program to enhance performance and reduce chance of athletic injury. The course will cover flexibility, speed, aerobic, anaerobic, core body, and strength training. The student in consultation with the instructor will design a program with short and long term fitness goals. Each student will be graded on participation, a daily journal to keep record of short and long term goals, body composition, height, weight, and daily workouts.

SECTION XI EXPERIENTIAL EDUCATION

1200/1201 CO-OPERATIVE EDUCATION, 11-12, ½ credit, 1 semester

Co-operative Education provides students an opportunity to gain practical experience in a business or profession and combine it with academic learning at GSA. Students will attend a one period seminar class at GSA in which they will learn about the business world and apply that knowledge to the job or internship they are pursuing. Students will also work or intern in an area business, earning additional credit for that practical experience. Students will continue to take some additional courses at GSA, depending on their graduation requirements and personal interest, however, they may be released from school during some class periods in order to work or intern during school hours as necessary. In order to enter and remain in this program, student attendance and effort must be satisfactory, both at school and at their work or internship. Admission to the program will require approval through the Office of Faculty and Student Services and approval from an acceptable work or internship site.

1000 INDEPENDENT STUDY, 11-12, 2 to 3 weeks, ½ credit

Prerequisite: Parental permission and no more than one failure in the preceding semester

This is an opportunity for juniors and seniors to design their own learning experience. Students are responsible for determining an area of study that may include exposure to a potential career, development of a talent or interest, travel with an academic focus, or exploration of an area completely unknown. In many cases students secure mentors or consultants for the duration of the project, but completely independent work is permissible. Independent Study takes place after February vacation each year, but planning and related deadlines begin in the late fall.