

# HOPKINS ACADEMY

## HIGH SCHOOL



### PROGRAM OF STUDIES 2007-2008

**HIGH SCHOOL**  
**PROGRAM OF STUDIES 2007 - 2008**

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## **MESSAGE TO PARENTS**

The Program of Studies is published to describe the courses for the academic year 2007-2008 and to aid the students and parents, together with the school, in choosing suitable and challenging programs. It is important that the information in this booklet be read carefully.

If you have any questions regarding the content of any course, or the courses most appropriate for your son/daughter, please feel free to contact the Guidance Department at 584-1106.

It is our goal to provide students with a challenging and interesting curriculum to meet the ever-increasing demands of society.

We sincerely hope the offerings contained within this Program of Studies will aid each student in preparing for the future.

# GRADUATION REQUIREMENTS

Grades 9-12

1. 20 credits in English (English 9,10,11 and 12)
  2. 15 credits in Mathematics
  3. 20 credits in Social Studies (World History I, World History II, U.S. History, Topics in American Democracy)  
(Class of 2012 – World History II, U.S. History I, U.S. History II, Topics in American Democracy)
  4. 15 credits in Science (Integrated Science and Biology are required)
  5. 10 credits in Physical Education
  6. 5 credits in Health/mini courses
  7. 35 credits in additional electives
  8. 10 credits World Language (unless approved waiver)
- TOTAL CREDITS REQUIRED 130**

Five credits are normally granted for a course, which meets one period a day for a full year.

These graduation requirements indicate the minimum credits needed to receive a diploma from Hopkins Academy. Students and parents must realize that the minimum requirements for graduation from Hopkins Academy are not adequate for admission to many four-year colleges and universities. Therefore, we strongly urge that students take specified courses and complete additional credits in order to meet admission standards to these schools. We also recommend that all students visit the guidance office on a regular basis to discuss future plans, specific course needs, and available options.

Failure to meet all graduation requirements by the close of school (2:00) on the last day of senior classes will result in a student not being allowed to participate in the commencement exercises and senior week activities.

*“Seniors” identified as being in danger of not graduating receive the following:*

1. *Certified letter at mid-year*
2. *An evaluation meeting with the guidance counselor that includes a student signing a summary of their current status*
3. *Another certified letter after third quarter*
4. *Numerous other contacts beyond mid-term reports and report cards.*

Beginning in 1997, students in grade ten will be taking a competency test mandated by the Education Reform Act of 1993. The passing of this test by students in the class of 2003 and all future classes will become a prerequisite for graduation from high school.

### Special Notes

1. Generally credit will not be granted to a student for a withdrawal prior to the normal ending of the course. Exceptions may be made by the principal for good cause such as transferring to or from another school, early graduation, and other unusual circumstances.
2. All students in grades 9 through 12 are expected to be enrolled in a minimum of the equivalent of 40 credits (eight class periods) during each marking period.
3. Class standing: (promotion/retention graduation requirements)

32.5	credits to be a sophomore
67.5	credits to be a junior
100.0	credits to be a senior
130.0	credits to graduate

Note: Homeroom assignments will be made on the basis of credits earned. A student who has not completed the minimum for his/her class will be assigned a lower grade homeroom.

### Program adjustments and waivers

1. The principal may grant a waiver relating to a specific course or courses. These waivers may be granted in cases involving early graduation, lack of supported background credit data when entering Hopkins from another school, students who are disabled and are receiving specialized instruction at locations other than Hopkins, and as determined by the principal other cases, which would result in an extreme hardship for a particular student.
2. In the past students have on occasion been allowed credit for courses taken at nearby colleges and universities. According to the Education Reform Act, students may now receive both high school and college credit for these courses. However, students must apply in writing to the guidance counselor and receive approval from the principal before undertaking this option.
3. Credit and level overrides are possible at the discretion of the principal and approval by the individual teacher and are done on an individual contract basis.
4. Independent study is available to students, with approval of parents. Arrangements must be made with the teachers(s) and the guidance office. Approval of the principal is required.

5. It is not possible to foresee all situations, which might require program adjustments and waivers. There is a need for flexibility, but the accountability aspects also need to be considered. In order to control adjustments and waivers the principal is the only person authorized to grant such changes.

6. Work-study is available to seniors, with parental approval, only if all other requirements can be completed. Students must apply through the Guidance Department and sign a work-study agreement to be eligible.

#### Summer School:

Students are allowed to make up, in summer school, courses failed during that academic year. Credit will normally be granted for said courses completed in an approved summer school when a student receives a C- or better.

In extenuating circumstances, a special evaluation may be made by the guidance counselor, with approval of the principal.

Any student who fails English for the year should make it up in the summer immediately following the course. Failure to do so will result in the student not graduating with his/her class. Students cannot take two English courses simultaneously.

Note: Tuition payments and transportation costs are the responsibility of students and parents.

#### Special notes relating to physical education

1. Students may be excused from the physical education requirement for the following reasons:

a. Medical reasons such as extended illness, disability, or injury. The school reserves the right to have medically excused students examined by the school physician or school nurse.

b. In cases of hardship or extenuating circumstances, and only with prior approval of the principal.

2. Students will be allowed to take more than one physical education class only when a prior failure has occurred.

3. Students who cannot participate in skills due to short-term injuries (up to two weeks) or previous illness must report to class and observe all instruction.

4. Students will not be excused from the physical education requirement through their participation in courses or activities outside of school.

5. Failure to attend class on a regular basis will result in a failure for the course and jeopardize graduation requirements. Our physical education instructor will consider each case on its merits and when appropriate may assign papers, reports, etc., as make-up work for lost time. This procedure will be allowed for legitimate absenteeism only.

## **Course Add/Drop**

**The cut-off for adding or dropping a course is the last Wednesday in September. Any changes after this date requires the recommendation of the teachers involved and the approval of the principal.**

## ENGLISH DEPARTMENT

Twenty (20) credits, or four (4) courses of English, are required for graduation. All courses are designed to strengthen skills in reading, writing, listening, and speaking, as well as to develop an appreciation of our own cultural heritage and those of other peoples.

### **AP English 12**

Course # 042  
Level AP

Grade 12  
Credits 5

AP English 12: English Literature and Composition is a rigorous college-level course. The reading is challenging; the writing is frequent and requires an independent mind. Students can expect to read several novels as well as plays, long poems, essays, and shorter works over the course of the year, and are expected to complete additional summer reading prior to the start of the course. Writing goals focus on developing accuracy, depth of thinking, and fluency through frequent assignments of short focus papers and longer analytical essays in response to literature. The seminar-like nature of the class demands that students take an active role in class each day through careful preparation and participation. The workload and expectations will be demanding for this two-semester course.

### **English 12**

Course # 041  
Level I

Grade 12  
Credits 5

English 12 incorporates a survey of British literature and emphasizes development and honing of writing skills. Frequent essays are required. In addition, students are required to select a British author and do extensive independent reading, maintaining a response journal to evaluate, question, and interpret the works. Vocabulary lists are presented weekly, and grammar is presented with application to eliminating technical writing problems.

**Prerequisite: English 11**

### **English 11**

Course # 031  
Level I

Grade 11  
Credits 5

English 11 is a survey course of American literature with historical and cultural perspectives. Writing and thinking skills necessary for college are emphasized through frequent essays, journal entries, collaborative writing, and oral presentations. A research paper is also required. Grammar, usage, and mechanics are presented in conjunction with the writing process, and vocabulary study is developed from both vocabulary texts and class reading. Critical reading, writing, and independent thinking are the focus throughout this yearlong course.

**Prerequisite: English 10**

## English 10

Course # 021  
Level I

Grade 10  
Credits 5

In this course students continue the study of the four literary genres with a focus on world literature. Students are required to keep a reading journal in which they develop the skills of interpretation of literature and critical thinking. Composition practice continues to emphasize effective communication by reinforcing the writing process in writing for various purposes. A research paper is required. Vocabulary growth is encouraged mainly through the study of derivatives.

**Prerequisite: English 9**

## Journalism I

Course # 060  
Level I

Grades 10-12  
Credits 5

This course is an introduction to print journalism. Students learn to write the various types of articles for a newspaper. The course covers the process of publishing a newspaper from collecting material to the actual publication of a newspaper. Students develop the skills needed for desktop publishing; e.g., the computer program PageMaker, layout design, and headline writing. Students in this class do most but not all of the writing for Hawk's Claw. Since strong language skills are necessary in this course, the recommendation of an English teacher is required. Class size is limited.

## Journalism II

Course # 063  
Honors

Grades 10-12  
Credits 5

Students continue to develop and practice the various writing styles used in print journalism and polish their desktop publishing skills. Students in this course take the responsibilities of editors, and, therefore, must be willing to work after school when necessary. This course also covers legal cases affecting scholastic journalism. Assessment areas include stories, assigning stories, copyediting, proofreading, computer layout, and tests. Enrollment requires having achieved a minimum of B in Journalism I. Class size is limited

**Prerequisite: Journalism I**

## English 9

Course # 011  
Level I

Grade 9  
Credits 5

In this course students study the literary genres of short story, novel, drama, poetry and nonfiction. Close reading skills are emphasized. Journals, class participation, frequent writing, and projects as well as tests and quizzes are used to encourage both analytical and creative responses to literature. We further develop the writing process introduced in middle school, which emphasizes graphic organizers, proper form, and a clear ratio of concrete details to commentary. Our aim is to give students a method for planning, writing, and evaluating essays, using some simple guidelines. Grammar, usage, mechanics, and vocabulary study complete the requirements for this course.

## **Yearbook Layout and Design**

Course # 059  
Level I

Grades 10-12  
Credits 5

This is a one-semester course intended for students who are interested in journalism. Enrollment is limited and requires prior approval of the course instructor. Since this is an independent study, prerequisites include a recommendation by an English teacher and/or the faculty adviser for the school yearbook. Students study the elements of computer layout of the yearbook, marketing, sales, photography, copy writing and editing. The actual submission of pages and sections of the yearbook are the chief assessment tools.

## **SOCIAL STUDIES DEPARTMENT**

### **Psychology**

Course # 140  
Level I

Grade 11-12  
Credits 5

First semester Psychology introduces the fields of psychology and the scientific method. The intent throughout the course is to tie scientific issues to corresponding applications in everyday life. The focus in this semester will be cognitive processes and the forces behind behavior including motivation, emotions, and physiology. Students will examine and discuss current trends and themes in psychology and how these affect their lives. Students will be expected to read beyond the textbook, conduct activities out of the classroom, and write papers.

The focus in the second semester will be on several different aspects of behavior. The individual is examined through developmental changes from birth to death and through key theories of personality. Behavioral problems, their diagnoses, and potential treatments are also studied. The course ends by examining societal influences on behavior. Students will be encouraged to explore their own special interest in psychology through choices of activities and a research paper.

### **Contemporary Issues**

Course #142  
Level I

Grades 9-12  
Credits 5

In this yearlong course, students will examine headline news, media, and current issues from multiple perspectives. Through the use of newspapers, magazines and other media, students will consider the events of the day in politics, culture, sports, science and foreign affairs. Students may also tackle such controversial contemporary issues as the death penalty, abortion, animal testing, gun control, cloning, euthanasia, and societal violence. In this discussion-based class, students will discover how current events impact their individual lives through dialogue, debate, reflective journaling, research, and oral reporting.

## **U.S. History**

Course # 131  
Level I

Grade 11  
Credits 5

All Hopkins Academy students must pass a course in United States History in order to graduate. The time period covered in this yearlong course is from Reconstruction following the Civil War through today. Topics addressed include the settling of the American West, urbanization, industrialization, immigration, the rise of the U.S. as a world power, the World Wars, the Depression, the Cold War, Vietnam and the 60's, and American politics and society at the end the 20<sup>th</sup> Century. Skills emphasized in the course are those of organization, oral and written communication, and analysis of graphs and charts. Videos, guest speakers, and primary sources are used where appropriate. Long-term projects are assigned quarterly. An original research project paper on a topic developed by the student will be done in the spring.

## **AP U. S. History**

Course # 132  
Advanced Placement

Grades 11-12  
Credits 5

Students will explore topics and themes in U S History from the colonial period through today. The first few weeks of the course will be spent developing a basic chronological understanding of approximately 250 years of U S History. For the rest of the year specific problems of our past will be considered in depth. Efforts will be made to link historical developments and trends with the present through extensive use of primary sources, student research projects, and classroom discussion. Historical writing skills well be emphasized with three research papers in the fall and an extensive thesis paper in the spring. Students must have earned an average of 3.0 in previous Social Studies classes to receive consideration for entry into this class.

## **World History I 500 B.C.E. – 1815**

Course # 123  
Level I

Grade 9  
Credits 5

This yearlong course, the first of two in the World History sequence at Hopkins, is designed to develop critical thinking, historical research, map and writing skills through the study of various world cultures. It also responds to a student's need for knowledge of the world at large by connecting present day events to the past. Study will begin with the development of the Classical Civilizations of Greece and Rome, and will continue with China, Africa and the Middle East after 500B.C.E. Other topics will include the origin of the world's major religions, the European Middle Ages, Renaissance and Reformation, and the Age of Discovery, and the Rise of the European nation states through the end of the Napoleonic Era. Units will include geography, language, history, government, the economy, literature and the arts.

## **World History II**

Course # 126  
Level I

Grade 10  
Credits 5

This yearlong course is designed to further develop critical thinking, historical research, and writing skills through the study of various world cultures. It also responds to a student's need for knowledge of the world at large by connecting the present day state of events to the past. Study will begin with a review of the Age of Nations and Empires, colonialism, then cover the World Wars, the Cold Wars, and post industrial society up until the present day. Units may include geography, language, history, government, the economy, literature and the arts.

## **Hands on Massachusetts**

Course #  
Level I

Grades 9-12  
Credits 5

This yearlong course will explore Massachusetts History through projects, discussions, guest speakers and fieldtrips. The course is designed so students may explore and discover how local and regional events are connected to national issues on their own, by emphasizing the use of primary source materials and research skills. Some of the topics covered will be Natural History, the Settlement of Plymouth, Witch Trials (Other than Salem) and the Abolition Movement in Northampton.

## **Mock Trial**

Course #  
Level

Grade 9 - 12  
Credits

Students enrolled in this course will learn the fundamentals of courtroom procedure including the role of prosecution and defense attorneys, witnesses and judges. Judicial vocabulary will be emphasized along with rules of decorum. Written work will include the preparation of opening and closing trial statements, briefs, case theories and lines of questioning. Courtroom re-enactments will enable students to put their knowledge to work in trial situations. Historical trials will be examined for attorney strategies and the application of law.

Entrance into the course is conditional on a teacher interview and acceptance. Students in the course must also participate in the Hopkins Mock Trial Team that competes between November and March each year.

## **Topics in American Democracy**

Course # 116  
Level I

Grade 12  
Credits 5

This is a yearlong capstone course for seniors. Students will examine the relationship between their rights and responsibilities as citizens participating in the maintenance of a democratic society. Federalism, the structure of the three levels of government (local, state, and federal), the operation of the party system, and issues critical to their new role as voters will be covered. Constitutional law with related Supreme Court cases will be emphasized. Themes such as participation, justice, liberty, privacy, and patriotism will also be explored. There will also be an opportunity to assess the significance of America's global responsibilities from the perspective of international peace and development, the world economy, and human rights among other things. The use of current events topic, simulations, and political involvement will be an integral part of the curriculum.

## **Sociology**

Course # 141  
Level I

Grades 11-12  
Credits 5

Sociology will address issues of contemporary society in order to develop an accurate understanding of American society and its integration into the larger world system. Students will examine political, familial, religious, and educational institutions and their impact on society as well as the individual. Through reading, research, and discussion, students will be encouraged to develop their ability to analyze the role of social structures in contemporary issues such as poverty, racism, and crime.

## **SCIENCE DEPARTMENT**

### **Physics**

Course # 238  
AP Physics

Grade 12  
Credits 5

This is a second year physics class designed for those seniors who plan to enter a science or engineering field. The course will build on the basic concepts introduced in the first year in addition to new investigations of Thermal Physics, Optics and Atomic and Nuclear Physics. It is non-calculus based but will be highly math oriented. Student expectations are similar to those of Physics (240) with extra emphasis on the use of computer probes and software in the laboratory.

Successful completion of Physics (240) and math courses through \*Algebra II and \*Trigonometry, or permission of the instructor, is required.

Course # 239  
Physics

Grades 11-12  
Credits 5

This class is designed for those students who plan to enter a science or liberal arts field or those juniors who wish to take A.P. Physics (B) as seniors. The course will present a clear and straightforward introduction to the basic concepts of physics. It will use the concepts before computation approach and will require knowledge of Algebra and basic Trigonometry. The first part of the course will deal extensively with Newtonian Mechanics and will be followed by studies of electrical and magnetic phenomena. Students will be expected to participate in: lectures, lab activities, homework assignments, field trips, class discussions and demonstrations. Video presentations, computer simulations and computer probes will also be used extensively.

Successful completion of math courses up to Algebra II, or permission of the instructor is required.

## Advanced Biology

Course # 241  
Honors

Grade 12  
Credits 5

The Advanced Biology, honors level course is open to seniors who have successfully completed Biology 10 and Chemistry with a grade of B or better. Students must also complete the dissection of the fetal pig in Biology 10. This course will study units covering genetics, microbiology, physiology of the systems of the body and comparative anatomy. The microbiology and comparative anatomy units will involve extensive lab work. The comparative anatomy unit will require individual dissection of the dogfish and cat, along with textbook research of the human body. The extent of the dissection will require an in depth learning of the appropriate organs and scientific terms.

Each student will also be required to complete a research paper over the course of the year on a topic within the field of Biology. The completed paper will meet the accepted criteria for scientific research papers.

## Advanced Chemistry

Course # 234  
Honors

Grade 12  
Credits 5

This second year chemistry course is designed for the student who has successfully completed a college preparatory chemistry course and is interested in furthering her/his education in chemistry. Students taking this course should have a fundamental knowledge of the periodic table, chemical equations and stoichiometric calculations. They must be able to demonstrate proper laboratory safety procedures and techniques, and be able to collect and analyze data. This course will offer a more in depth study of some concepts covered in a first year chemistry course and will introduce more detail concerning concepts dealing with chemical kinetics, acids and bases, thermodynamics, redox reactions, organic chemistry and biochemistry not previously covered.

Successful completion of this course will require each student to participate in a project where the student will perform continued independent research, compile her/his findings, prepare a written report, and present it to the class.

**Prerequisite: Chemistry**

## Chemistry

Course # 231  
Level I

Grades 11  
Credits 5

This yearlong high school chemistry course is a laboratory course intended for those students interested in chemistry. This course has been designed for the work bound and college bound students alike, with emphasis placed on the chemistry of substances encountered in daily life and on the basic skills needed to be chemically literate. The safe practice of lab techniques and use of chemicals in school, work, and at home will be stressed. Understanding is developed by using the discovery approach in the classroom and laboratory. Students can be prepared for various lab activities, regular homework assignments, lab reports, projects, class work, class discussions, quizzes and tests. Students are expected to keep a class notebook and a separate laboratory notebook. Students must have a scientific calculator.

**Prerequisite: Algebra I**

## **Biology**

Course # 221  
Level I

Grade 10  
Credits 5

This introductory biology course will involve a comparative study of life. Rather than investigate each level of life separately, all levels of life will be viewed together to show differences and similarities. A good deal of emphasis will be placed on the molecular aspect of many cellular processes, along with the systems of the body and the plant and animal kingdoms. Many of the topics studied will be supported by lab work.

## **Environmental Science**

Course # 220  
Level I

Grades 9-12  
Credits 5

Environmental science is a yearlong project-based course for any student interested in learning more about the environment, both natural and man made, and the balance between them. Students will be involved in fieldwork studying the local ecosystems and microhabitats. New England ecology will be stressed and a basic foundation of global ecology established. Students will participate in various lab activities and projects throughout the year. If you are a person who likes to sit back, this course is not for you!

## **Integrated Science**

Course # 210  
Level II

Grade 9  
Credits 5

This is a yearlong academic, laboratory based course. Students will be involved in an interdisciplinary study of earth, and physical science, building upon concepts previously introduced in physical science, such as a further study of electricity and magnetism, light and sound, and the exploration of some chemical systems. References will be made to daily life processes. This is an activity-based course, which requires student participation in demonstrations, laboratory exercises, discussions, projects, regular homework assignments, quizzes and tests. The student is required to have a calculator and notebook.

## **MATHEMATICS DEPARTMENT**

Four levels of courses are offered at Hopkins Academy in an effort to accommodate the varied aptitudes and interests of students. The Level I courses are designed for the majority of our students and include all the requirements necessary for entrance to four-year colleges. Level II courses do not meet the requirements for entrance into 4-year college. Calculus is an Advanced Placement course and follows the guidelines set by the College Board. In accordance with NCTM standards, all math courses are taught with the aid of computers, calculators, and graphing calculators, as appropriate; however, *their use will be restricted as determined by the teachers.*

## AP Calculus

Course # 341  
Advanced Placement

Grade 12  
Credits 5

This senior level course is for those mature students who plan to enter the fields of math, science or engineering. Topics to be covered in the course include a study of functions, limits, derivatives, integration and their applications. The course curriculum is set by the College Board and the workload will be structured and demanding.

**Prerequisite: Pre-calculus and the approval of the Math Department**

## Pre-Calculus

Course # 331  
Honors

Grade 11  
Credits 5

This course is designed for those students who have shown interest and ability in mathematics and have successfully completed courses in Algebra II and Geometry and with a B or better and/or have the recommendation of the teachers. Topics to be covered in some depth include linear and quadratic equations and inequalities, graphing, functions, trigonometry, exponents and logarithms, vectors, complex numbers, and advanced graphing as time allows. This course is a prerequisite for calculus.

## Statistics and Probability

Course# 310  
Level I

Grades 11-12  
Credits 5

This course is designed for the student who successfully completed a course in Algebra II with a "C" or better, and/or has the recommendation of the teacher. This course is a basic overview of statistics and probability, including data analysis, distributions, confidence intervals, hypothesis testing, correlations, and regressions. Students are encouraged to have a graphing calculator, such as the TI-83.

## Advanced Algebra and Trigonometry

Course # 342  
Level I

Grades 11-12  
Credits 5

This course is designed for the student who has successfully completed a standard course in Algebra II. The basic study of algebra is continued in the study of functions, conic sections, systems of equations and inequalities, progressions and series, and logarithms. The survey of trigonometry includes trigonometric functions, their uses, graphs and identities, and the use of the functions for solving triangles.

## **Business Mathematics**

Course# 346  
Level II

Grades 11-12  
Credits 5

This course is designed to develop competency in mathematics for consumer and business use. Basic mathematical skills will be reviewed to help prepare students for work and study in trades, semi-professional occupations and other careers after graduation. This course covers such areas as sales, marketing, distribution, accounting, and production.

## **Consumer Math**

Course # 320  
Level II

Grades 11-12  
Credits 5

This course concentrates on computational skills that high school students need in solving consumer and business problems in every day life. It also develops skills in basic math needed for future work and study in trades, semi-professional occupations and other careers. The course covers such areas as decimals, measurement, fractions, percent, banking services, investments, income taxes, owning a car, owning a home, and the metric system.

## **Integrated Mathematics I**

Course # 349  
Level II

Grades 9-10  
Credits 5

This course is for those students not following the traditional college preparatory math sequence.

The Integrated Math I course is designed for math students desiring an introduction to the basic language of algebra and geometry. Topics covered will include problem solving strategies, fractions, decimals, real numbers, equations, data analysis, statistics, graphs, ratios, proportions, and percents.

## **Integrated Mathematics II**

Course # 350  
Level II

Grades 10-11  
Credits 5

This course is for those students not following the traditional college preparatory math sequence and who have successfully completed Integrated Mathematics I

Integrated Mathematics II is a review and continuation of the basic algebra and geometry skills of Integrated Mathematics I. Topics covered will include simple interest, percent increase and decrease, angles, parallel lines, polygons, triangles, prisms, integers, probability, equations, and functions.

## **Algebra II B**

Course # 332  
Level I

Grade 11  
Credits 5

This is a course designed for students who have successfully completed courses in Algebra I and Geometry. Included in the course are a review of the basic concepts of Algebra I, linear relations and functions, polynomials, equations and inequalities, quadratic relations and functions, probability, translations, matrices, and linear systems of equations.

## **Algebra II A**

Course # 321  
Honors

Grade 10  
Credits 5

This course is designed for sophomores who have successfully completed courses in Algebra I and Geometry with a B or better and/or have the recommendation of their teacher. Included in the course are a review of the basic concepts of Algebra I, linear relations and functions, systems of equations, polynomials, equations and inequalities, quadratic relations and functions, conics, complex numbers, polynomial functions and exponential and logarithmic functions.

## **Geometry 10B**

Course # 322  
Level I

Grade 10  
Credits 5

Geometry B is a course designed to follow successful completion of Algebra I in 9th grade. It offers an introduction to basic geometric figures and to inductive and deductive reasoning. It provides a thorough introduction to Euclidean geometry. Algebraic skills are reviewed periodically and applied to solving problems in geometry. Additional topics include area, volume, geometric constructions and coordinate geometry.

## **Geometry 9A**

Course # 311  
Honors

Grade 9  
Credits 5

This course is designed for 9<sup>th</sup> grade students who have successfully completed Algebra I in the 8th grade with a B or better and/or have the recommendation of their teacher. The basic structure of geometry, inductive and deductive reasoning, construction, and transformations will be studied. Algebraic skills are reviewed periodically and strengthened as algebraic methods are applied to solving problems and coordinate geometry.

## Algebra I B

Course # 312  
Level I

Grade 9  
Credits 5

This course serves as an introduction to the basic language of algebra. Emphasis will be placed on working with real numbers, solving equations, inequalities, related problems and statistics and probability, with continued reinforcement of basic math skills. Other topics to be covered are polynomials, graphing of functions, and systems of linear equations as time allows.

### **WORLD LANGUAGE DEPARTMENT**

Course # 411 French I  
Course # 412 Spanish I  
Level I

Grade 9  
Credits 5

This is a TPRS (Teaching Proficiency through Reading and Storytelling) course, meeting every other day for a full year, which continues the program started in the middle school. Students will acquire listening, speaking, reading, and writing skills in the target language through increasingly more advanced stories, mini-novels, group work, and skits. Culture will be presented with videos, research projects, and holiday celebrations.

Course # 421 French II  
Course # 422 Spanish II  
Level I

Grade 10  
Credits 5

This is a TPRS (Teaching Proficiency through Reading and Storytelling) course, meeting every other day for a full year. The prerequisite for this course is successful completion of the level I. course. Students will continue to improve their listening, speaking, reading, and writing skills through stories with more advanced grammatical concepts, mini-novels, group work, and skits. Culture will be continued with videos, research projects, and holiday celebrations.

Course # 431 French III  
Course # 432 Spanish III  
Level I

Grade 11  
Credits 5

This is a TPRS (Teaching Proficiency through Reading and Storytelling) course, meeting for the full year. The prerequisite for this course is successful completion of the level II. course. Students will strengthen their command of the spoken and written language through stories, novels, skits, and film analysis. They will express themselves in all tenses, being aware of more complex structures of the target language.

Course # 441 French IV  
Course # 442 Spanish IV

Grade 12  
Credits 5

## Honors

This is a TPRS (Teaching Proficiency through Reading and Storytelling) course, meeting for the full year. The prerequisite for this course is successful completion of the level III. course. Students will refine their listening, speaking, reading, and writing skills through stories, novels, skits, and film analysis. They will be required to write a daily journal.

## **BUSINESS EDUCATION**

### **Economics**

Course # 505  
Level I

Grades 11-12  
Credits 5

This course will involve a study of the American economic system, as well as economic problems and decisions we all encounter in our daily lives. Current national, world, and business events will be evaluated and analyzed during the semester. In addition to regular reading and writing assignments, tests and quizzes, a research paper is a requirement of this course. This course is highly recommended for all students planning on entering college and majoring in a business field. This course is offered based on interest and enrollment.

### **Business Law**

Course # 503  
Level I

Grades 11-12  
Credits 5

This course covers three major areas: our judicial system, business law, and understanding case problems. The course is designed to familiarize students with our legal system and the types of legal problems they will encounter in everyday life. The Commercial Code and analyzing case problems relating to business situations will be covered. In addition to regular reading and writing assignments, tests, and quizzes, a research paper is a requirement of this course. This course is highly recommended for all students planning on entering college and majoring in a business field. It is offered based on interest and enrollment.

### **Introduction to Computers**

Course # 510  
Level I

Grades 9-12  
Credits 5

Students will build on the knowledge learned in Middle School pertaining to the MS “Works Version 4” word processor, database, and spreadsheet. They will learn the history of calculating devices and computers, will be introduced to desktop publishing, and understand the social and ethical implications of computing. The purpose of this course is to make students more productive at school and on the job, and to prepare them for more advanced software packages.

### **Advanced Computers**

Course # 509  
Level I

Grades 10-12  
Credits 5

In this course, students will learn computer programs such as website design software, animation software, and photography and graphic editing software. Software titles included in the class are Dream Weaver, Photo Shop and Flash. After completing this course, students will be able to design and manage websites and advertise themselves as a Webmaster. Most all work will be done in class and the final will include designing, from scratch, a website representing a local business.

**Prerequisite: Intro to Computers**

## **ART DEPARTMENT**

### **Visual Arts Methods & Materials 1,2,3,4**

Course # 714  
Level II

Grades 9-12  
Credits 2.5

This yearlong course will meet for forty-three minutes every other day. It is designed to give students the opportunity to broaden and develop a working art vocabulary while exploring a variety of techniques both 2D & 3D. Students will learn foundational skills in drawing, painting, ceramics, sculpture, printmaking, computer graphics and design. Students will have the opportunity to understand and apply studio production, art history, art criticism, and aesthetics through individual exploration in the arts. Students must maintain a portfolio of sketches and finished work.

### **Visual Arts & Media Literacy 1,2,3,4**

Course # 715  
Level II

Grades 9-12  
Credits 5

This yearlong course will meet for eighty-three minutes every other day. It is designed to give students the opportunity to broaden and develop their working art vocabulary, while exploring a variety of techniques, both 2D & 3D. They will work in mixed media, including drawing, painting, ceramics, sculpture, printmaking, computer graphics, multimedia, design, digital photography, video production and PowerPoint presentations. Students will build on their experience and understanding of studio production, art history, art criticism and aesthetics. Students must maintain a portfolio of sketches and finished work.

### **Portfolio Preparation/Independent Study**

Course # 725  
Level I

Grade 12  
Credits 2.5 or 5

This course is designed for the serious art student who wishes to apply to a college art program, put a portfolio together and learn more about art history. Work is done independently during other art classes, after school, and /or at home, depending upon the instructor's and the student's schedules. Along with the required project work there will be an independent study of art history in order to better acquaint the student with the art and artists of the past as they influence our present culture. Students must maintain a portfolio of sketches and finished work. Permission of the instructor is required.

## **FAMILY AND CONSUMER SCIENCE DEPARTMENT**

Courses in Family and Consumer Education prepare both male and female students for their transition to the adult world and family life.

### **Food & Nutrition**

Course # 619  
Level II

Grades 11 & 12  
Credits 2.5/5

This course encourages students to broaden their understanding and appreciation of food. Content includes nutrition, food safety and kitchen sanitation, modifying recipes to make them healthier, planning meals within a budget, multi-cultural research projects/preparing foods, reading food labels and food preparation using a variety of topic areas. Students will also work in teams to practice decision-making and time management skills while cooperating in food preparation efforts.

### **Early Childhood Education**

Course # 613  
Level II

Grades 11 & 12  
Credits 5

This course provides students an opportunity to learn more about children through hands-on activities at the Hadley Elementary School. Seniors will be assigned to a specific teacher at the elementary school based on their interest. Students must provide their own transportation, and keep a detailed journal of their experiences.

**Prerequisite: Practical Parenting or permission of the Family and Consumer Science Teacher**

\*This course will be offered during Periods B, C, E, & F only.

## **JUNIOR/SENIOR FAMILY & CONSUMER EDUCATION ELECTIVES**

(In conjunction with Grade 11 and 12 Physical Education)

## **Independent Living**

Course # 618  
Level II

Grade 11 & 12  
Credits 2.5

“Independent Living” is designed to help students meet the challenges of their daily lives with confidence. This course will offer experiences that will help students to think about, discuss and develop the necessary skills for everyday living. Content includes buying a new or used car, budgeting, money management, credit and credit cards, finding a job and job interviews, apartment contracts and choosing housing, laundry and other issues students need to know about when going out to live on their own. This course is taught in a variety of ways: readings, discussions, lectures, speakers, projects, and journal assignments. **THIS IS NOT A COOKING CLASS!!**

## **Practical Parenting**

Course # 622  
Level II

Grades 11 & 12  
Credits 2.5

Children are part of everyone’s life whether one is a sibling, baby-sitter, neighbor, camp counselor, day-care provider, parent teacher or doctor. “Practical Parenting” provides the opportunity to learn about reproduction, pregnancy, birth, and the development of young children up to the age of 6 while providing activities that will enhance their learning through play, research projects and field trips.

## **Foods and Nutrition**

Course # 615 (Long Block)  
Level II

Grades 9-12  
Credits 5

This course encourages students to broaden their understanding and appreciation of food. Students work in groups to practice decision-making and time management skills while cooperating in food preparation efforts. Topics will include food safety and sanitation, basic measuring and food preparation techniques, food and nutrition career exploration, microwave cooking, ethnic cooking, meal planning within a budget, research projects on nutrition and related diseases, analyzing food labels, analyzing fast food and modifying recipes to make them healthier. Students will use food labs to demonstrate their knowledge of food preparation techniques that will increase in difficulty as the years of enrollment in this course continues.

## **Clothing and Textiles**

Course # 621  
Level II

Grades 11 & 12  
Credits 2.5

In this course students will learn to use a sewing machine and serger to practice basic sewing skills and construction techniques. Fabrics, sewing equipment and safety will also be covered. Each student is expected to choose projects that will match his/her sewing abilities. Projects may include stuffed animals, quilts, mending, and clothing items. The class will also be responsible for a community service project.

## **MUSIC DEPARTMENT**

### **Band**

Course # 700	Grades 9-12
Level II	Credits 2.5

This class meets every other day all year. Rehearsals take place in and out of school time. Membership in ensembles and stage band is by selection.

### **Basic Music Theory and Harmony**

Course # 706	Grades 11-12
Level II	Credits 5

This is a study of forms and harmony starting with simple triad and, chord progression, in addition to all basic musical concepts, continuing into harmony and four-part writing. Ability to read music is required.

### **Jazz Band**

Course # 709	Grades 9-12
Level II	Credits 5

This is a Jazz Band lab class focusing on an understanding of Jazz while learning to create and play numerous Jazz numbers. Sign-up requires demonstrated ability and instructor permission. It is also expected that students enrolled will participate at evening rehearsals and scheduled performances.

### **Composition**

Course # 720	Grades 9-12
Level II	Credits 2.5

This is a study of the basic techniques of transferring musical ideas to paper and the construction of musical forms. Basic Music Theory and Harmony is a prerequisite for composition.

### **Chorus**

Course # 702	Grades 9-12
Level II	Credits 2.5

The Hopkins Academy Chorus is a four-part singing ensemble that performs contemporary music at concerts and related activities in and out of school. This class meets every other day for the year.

## **PHYSICAL EDUCATION DEPARTMENT**

### **Physical Education**

Course # 940  
Level II

Grades 9-12  
Credits 5

Physical education is required for all high school students in grades 9-12. Students must successfully complete four years of physical education unless the requirement is waived by the school principal. Classes emphasize team sports, individual and dual sports, recreational and lifetime activities. The objectives of the program are to promote physical fitness, develop motor skill techniques, increase cardio-vascular capacity, and to place an emphasis on carry-over activities. Emphasis is also placed on sportsmanship, social skills, knowledge of rules and safety, and an insight into proper personal hygiene.

Activities offered in Physical Education are:

Archery  
Soccer  
Flag Football  
Ultimate Frisbee  
Volleyball  
Snowshoeing  
Pickle Ball  
Circuit Training

Badminton  
Basketball  
Aerobics  
Team Handball  
Lacrosse  
New Games  
Table Tennis  
Recreational Games

Floor Hockey  
Golf  
Field Hockey  
Softball  
Power Walking  
Fitness Testing  
Fitness & Nutrition

## **HEALTH DEPARTMENT**

Course # 951  
Level II

Grade 10  
2.5 Credits

Students in 10<sup>th</sup> grade Health will spend 4 weeks in CPR and First Aid training for which they will earn an American Red Cross card. The immune system will be covered, especially in relation to how tobacco, drug and alcohol use can impact our ability to fight diseases. There will be a mental health unit during which diseases such as depression, bipolar disorder, schizophrenia and anxiety will be covered. A unit on aging is intended to help students better understand the obstacles elderly people face in our society and to get students thinking about how they might advocate for the elderly in their lives. Death and dying is covered from both the emotional and the practical perspectives.

The primary goal of Health class is to prepare our students to be advocates for their personal health and the health of their community. Students will be evaluated on their participation in class discussion, through individual and group projects and exams.

Course # 950  
Level II

Grade 9  
2.5 Credits

Students in 9<sup>th</sup> grade Health will learn about the male and female reproductive systems. We will cover fertilization to birth in detail focusing on environmental factors that can affect the developing fetus such as nutrition, tobacco, drug and alcohol use. The physical, social and emotional aspects of adolescent development will be covered. Sexual orientation and gender identity will be discussed as well as sexual harassment and sexual assault. While abstinence will be presented as the only sure way to prevent STD's and pregnancy, contraception will also be covered.

The primary goal of Health class is to prepare our students to be advocates for their personal health and the health of their community. Students will be evaluated on their participation in class discussion, through individual and group projects and exams.

## **DUAL ENROLLMENT**

### **Dual Enrollment Grades 11 & 12**

The dual enrollment program was authorized in the Education Reform Act of 1993. Today, qualified high school students can earn both high school and college credit through this program. Currently-enrolled Massachusetts public high school juniors and seniors, who are in good academic standing (3.0 or better) and who are recommended by their principal or guidance counselor, are eligible for consideration to enroll in courses at Massachusetts institutions of higher education. The dual enrollment program is not an alternative high school; students must demonstrate the ability to benefit from college level work. Students interested in dual enrollment should see their guidance counselor for details.

## **Work-Study**

Course # 646/01

Grade 12

The main objective of the Work-Study program is to provide an opportunity for high school students to continue their education while gaining valuable work experience under supervision. The Work-Study experience is designed to develop desirable work attitudes and promote understanding of the relationship between formal education and job success through supervised part-time employment as part of the total school program. Students will earn academic credit for the work experience that will count towards their high school diploma. (cannot replace any courses required for graduation) Students are granted permission to participate in this program only after consultation with the principal and guidance counselor. Students in Work-Study are expected to enter into a contract with the school, and among other things, are expected to fulfill all requirements of the academic courses assigned for the school phase of their program.

### **Honors**

Grades 11 & 12  
Credits 5

Students in grades 11 and 12 may request Honors weight for specific courses by contracting with the specific teacher. Mutual agreement is required since such arrangements require significant additional preparation for teacher and student. Arrangements are made in conjunction with existing Level I courses and involve additional meeting time beyond the regular class. Also, once enrolled, the regular add/drop process is in effect even if the student simply wishes to return to the traditional Level I course. Grading is based upon the Honor level expectations and cannot be related to the Level I grading process.

### **Advanced Placement**

Grades 11-12  
Credits 5

Students in grades 11 and 12 may enroll in Advanced Placement courses if they meet the following criteria; maintained a 3.0 or better average in the same subject area (Ex.- social studies courses for AP U.S. History) and/or have the approval of the instructor as well as successful completion of any prerequisite courses. Students not meeting the criteria but wishing to enroll, must submit their request in writing to the principal during the prescribed enrollment period, which will result in a review of current academic performance, test scores and teacher feedback. The principal will then make the final decision.

## **VIRTUAL HIGH SCHOOL GUIDELINES**

Beginning in the fall of 2006, students in grade 12 (and grade 11, if there are available openings) may enroll in VHS if they meet the following criteria; maintained a 3.0 or better average in the same subject area (Ex.-Science courses for AP Environmental Science) and/or have the approval of previous same subject area teachers as well as successful completion of any prerequisite courses. It is anticipated that VHS courses will require at least as much time, organization and preparation as current Hopkins Academy Advanced Placement courses. Students must have the ability to work independently and possess solid computer skills. Students not meeting the criteria but wishing to enroll, must submit their request in writing to the principal during the prescribed enrollment period, which will result in a review of current academic performance, test scores and teacher feedback. The principal will then make the final decision.

The following guidelines apply:

1. Students may only enroll in **courses not offered** at Hopkins Academy.
2. Core course **requirements cannot** be met through VHS courses.
3. Students may **only enroll in one** VHS course, and they must enroll at the beginning of the school year. Students may select a single semester VHS course only if they agree to take another semester VHS course during the same time block for the second semester (the two semester long courses would equal one full year course for credits and weight).
4. All VHS courses will be **credited and weighted the same** as equivalent courses at Hopkins Academy.
5. Students must report to the library during the scheduled period under the supervision of the Librarian/VHS Site Coordinator. The VHS course instructor, **not the Site Coordinator**, will determine grades, which will be submitted to Hopkins Academy for report cards and transcripts.
6. The Administration and guidance Department **may recommend** VHS courses to accommodate specific, unusual individual student needs (i.e., irresolvable scheduling conflicts or transfer situations).