

**UXBRIDGE HIGH SCHOOL
PROGRAM OF STUDIES
2009 – 2010**

Dear Student and Parent(s)/Guardian(s):

It is my pleasure to provide you with the 2009-2010 Uxbridge High School Program of Studies. The diverse educational programs described in this program provide each student with the opportunity to have his or her individual needs met.

The administration, faculty and community have created and supported programs to meet the needs and varied learning styles of the student body. The rich and varied curriculum is supplemented by an abundance of extra-curricular activities: music, drama, athletics, academic teams, publications and clubs. Engaged in such activities, students learn to understand that they are part of a larger community that reaches beyond the confines of the building. The goal of our program is not only to equip students with the skills necessary for further work and study but also to encourage them to become responsible human beings capable of contributing to their world.

I encourage each student to select a course load which is both interesting and academically challenging. I also encourage students to consult with parents, current teachers and guidance counselors for advice in program selection. This is your opportunity to make those educational choices that will provide the basis for reaching your future goals and career choices.

If you would like to discuss the Program of Studies or need assistance in making selections, please do not hesitate to contact your child's guidance counselor at 508-278-8633 or myself at 508-278-8634

Sincerely,

Daniel Stefanilo
Superintendent/Principal

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GUIDANCE DEPARTMENT

1. The main focus of this Department is to assist students and parents in:
 - a. Selecting an appropriate high school program, one designed for their students' and future goals.
 - b. Dealing effectively with a variety of personal issues and helping students in their self-exploration process.
 - c. Offering students the opportunity to explore their future educational goals and career paths and working individually or in small groups to help shape appropriate post grad options.
 - d. Monitoring students' progress and assisting them in developing academic & social skills, which will enhance their high school experience.

2. Students can learn about summer programs, post secondary education options and scholarships through resources in our Guidance Office.
 - a. Numerous catalogs and bulletins, as well as applications for many accredited colleges and vocational schools are available for student use.
 - b. Representatives from a variety of colleges and the military set up informative displays in the cafeteria, and students are encouraged to seek information that will help formulate post-secondary plans.
 - c. We offer a Financial Aid Night for students and their parents each December.
 - d. A College Planning Night for students and their parents is held in March.

3. Students and parents may make an appointment to meet with counselors. Periodically, counselors or other staff members will meet with students individually or in small groups. Often the topics will be:
 - a. student issues (personal & social)
 - b. school programs
 - c. career (and academic) plans
 - d. student's academic progress

4. Students and parents should periodically review important information (SAT/ACT test dates, scholarship information, etc) that is posted in the guidance link on the Uxbridge Public Schools website at: www.uxbridgeschools.com

As a department, we feel each student is valued, and we look forward to the opportunity to work with parents and students to make the UHS experience productive and enjoyable.

Reminder: A student may make an appointment to see his or her counselor through the Guidance Secretary. Should any questions or concerns arise, parents are encouraged to call their child's guidance counselor @ (508) 278 - 8633.

POLICY 581 - PROMOTION/GRADUATION REQUIREMENTS–UHS
EFFECTIVE CLASS OF 2010

1. Students must pass the following courses with a grade of sixty (60) or better and the minimum cumulative credits indicated in order to graduate from Uxbridge High School.

AREA	CREDITS	SEQUENCE REQUIREMENTS
English	16 credits	Students must take Freshman English, Sophomore English, Junior English, and Senior English during their respective years.
Mathematics	16 credits	At a minimum Algebra I and Geometry or Fundamentals of Algebra/Geometry I & II should be taken in Freshman and Sophomore years. Students should take either: Algebra I, Geometry, Algebra II; or Honors Geometry, Honors Algebra II; or Fundamentals of Algebra/Geometry I & II in sequence.
Science/Technology	16 credits	Students must take Introductory Physics/Technology as a Freshman <u>and</u> Biology as a Sophomore. Additionally, students must take a Science Course <u>and</u> either an additional Science or an additional Technology Course to complete requirement.
Social Studies	16 credits	Students must take U.S. History I in Freshman year, U.S. History II in Sophomore year, U.S. History III in Junior year, and U.S. Government as a Senior
Foreign Language	4 credits	All students must complete a minimum of 4 credits in the same Modern Foreign Language.
Physical Education	8 credits	Students must take PE/Wellness in their Freshman year and one PE elective each year thereafter
Health	2 credits	All Sophomores must take Health
Fine Arts	2 credits	All students must take one Fine Arts elective

Massachusetts Law requires that all students awarded a diploma must have earned a competency determination and fulfilled local graduation requirements. Competency determination is achieved by receiving a passing core on MCAS exams identified as requirements to receive a diploma. Students who meet local graduation requirements but do not earn a competency determination will receive a “Certificate of Attainment” instead of a diploma.

2. Credits

- 2.1 A credit equals 33 hours of structured learning time. “Structured learning time” shall mean time during which students are engaged in regularly scheduled instruction, learning activities, or learning assessments within the curriculum for study of the core subjects. In addition to classroom time where both teachers and students are present, structured learning time may include directed study, independent study, technology-assisted learning, presentations by persons other than teachers, school to work programs, and statewide student performance assessments.
- 2.2 Students who do not earn the minimum credits will receive a written notice of this with their semester report card from the Guidance Department and a revised “Four Year Plan” outlining courses needed by senior year in order to graduate.
To be classified as a sophomore, a student must have earned 22 credits;
To be classified as a junior, a student must have earned 48 credits;
To be classified as a senior, a student must have earned 74 credits.
- 2.3 Courses for graduation may be taken at a college/university. Credit will be awarded on the basis of equivalent content as determined by the Principal.
- 2.4 Students will receive credit for the same subject only once, except with approval through IEP process or by The Graduation Review Committee.
- 2.5 **Due to the change from a semester schedule to a trimester schedule, the number of credits needed to graduate will be adjusted over the next four years. Students must earn the following number of credits in order to graduate:**

Class of 2010 - 130 credits

Class of 2011 - 122 credits

Class of 2012 - 113 credits

Class of 2013 and beyond - 104 credits

Students are also required to attend classes for four full years in order to graduate.

3. Parents of seniors will be notified by the Principal’s Office at the end of the second trimester, by registered mail, return receipt requested, that the student is in danger of not graduating due to loss of credit. Such notice shall include a request that the parent call for an appointment with the guidance counselor to review the student's record and a statement of the procedures for making up lack of credit.
4. In accordance with IDEA 2004, the Principal or his/her designee shall determine whether a referral or pre-referral should be made for special education programs/services or a referral for evaluation should be made if any of the following conditions exist and shall promptly and in writing notify the parents which condition exists, if a referral is being made, and to their right to make such referral.

This applies to:

- 410.1 (a) Any child who at mid-year presents a substantial risk of non-promotion. For purposes of this paragraph, a substantial risk of non-promotion shall be considered to exist if a child is failing in two or more required subjects.
- 410.1 (b) Any child who may not be promoted at the end of the year.
- 410.1 (c) Any child who has been suspended for more than five (5) days in any quarter or excluded from school.

410.1 (d) Any child who has been absent without medical excuse for more than fifteen (15) days in any semester.

410.1 (e) Any child ages sixteen through twenty-one who is planning to leave school without a high school diploma.

409.0 Pre-referral: Limitation

Prior to referral of a child for an evaluation, the Principal shall ensure that efforts have been made to meet such child's needs within the regular education program. In addition, efforts shall be made to modify the regular education program to meet such needs. Such efforts may include, but are not limited to: modification of the curriculum, teaching strategies, teaching environments, or materials; and use of support services, consultative services, and building base teams to meet the child's needs in the regular education classroom. Such efforts and their results shall be documented and placed in the child's record. Nothing contained in this paragraph shall be construed to limit or condition the right to refer a child for an evaluation.

5. In accordance with IDEA 2004, any student for whom the Uxbridge Public School System is responsible for will be allowed to participate in and/or receive an Uxbridge High diploma upon completion of the requirements in Section 1 (listed above) or the requirements specified in the Individual Education Plan.

6. Students who fail a subject needed for graduation from Uxbridge High School must make up that course. Make ups may be completed as follows:

6.1 Studying the failed subject, at an approved summer school program, during the summer immediately following the year in which the course was failed. The grade earned at an approved summer school will be averaged with the numerical grade of the failed class

6.2 Studying a previously failed required course at a state or private college or university. A three (3) credit course would equal a high school course that is taken over two trimesters or a total of four (4) credits.

6.3 Physical Education/Health make up credits are awarded on a Pass/Fail, if the course is not retaken at Uxbridge High School.

6.4 Taking the course over at Uxbridge High School prior to graduation.

6.5 Foreign Language

Students failing a Foreign Language course and who want to continue in foreign language must either repeat the failed course in order to progress to the next level, or may attend an approved summer school course. Upon successful completion of the approved summer school course the student must pass a departmental exam to continue on to the next level of foreign language study.

6.6 Independent study of a course at Uxbridge High School not previously taken. The course must contain a minimum of 33 hours of structured learning time for each credit.

6.7 In accordance with MIAA rules and regulations, a student cannot count for eligibility any subject taken during the summer vacation unless that subject has been previously pursued and failed. Students must pass four (4) out of five (5) subjects taken. A student cannot count towards eligibility a course previously taken and passed.

7. A Graduation Review Committee (GRC) will consist of the Principal, Assistant Principal, School Nurse, Teacher, and the Student's Counselor. The members will serve a one year term. The committee will review, upon request, the **local graduation requirements**. A student will have the opportunity to substantiate that he/she has made every effort to meet these **local** graduation requirements, including efforts to make up courses and earn back lost credit due to absence. Due his/her unique circumstances, the GRC may develop an alternative program for this student, including waivers of required courses to allow the student to obtain a high school diploma. The Superintendent will be informed when a **waiver is granted**.
8. Credit for a failed subject is contingent upon following the make-up procedures correctly. The Principal has the authority to approve make-up credits in accordance with this policy.
9. Further Requirements:
 1. Each high school student must carry fifteen (15) semester courses in each school year.
 2. When selecting electives at the next highest level in a given subject area (s), students must meet the prerequisites, as outlined in the approved program of studies, for each course.
 3. Physical Education may be omitted with a valid medical excuse from a physician.

MASSACHUSETTS STATE COLLEGE AND UNIVERSITY ADMISSION STANDARDS

Minimum Grade Point Average (G.P.A.):

The GPA must be achieved based on all college preparatory courses completed at the time of application and should be weighted for accelerated (Honors or Advanced Placement) courses. The required minimum weighted high school GPA is 3.0 for the four-year public campuses.

<u>State College G.P.A.</u>	<u>University G.P.A.</u>
3.0	3.0

For students whose G.P.A. falls below 3.0, the combined SAT-I sliding scale range has been altered: 920-1120 for state colleges, 950-1150 for universities.

Other changes that started with the fall of 2000 include the allowance of two ESL (English as a Second Language) college Preparatory courses in lieu of two of the four required English courses, and no science waivers will be allowed (in some cases the third science requirement was waived based on the high school's curriculum and/or other circumstances). Additional language accompanies these requirements as defined by the BHE.

The standards for admission still require the successful completion of the 16 academic college preparatory units including 4 English, 3 Science, 3 Math, 2 Foreign Language, 2 Social Sciences, and 2 electives. The public colleges also have an exemption cap of 10%, which allows admission to a small number of students who do not meet the above standards.

For further information regarding the standards at State Colleges and Universities, please visit the Board of Higher Education website at www.mass.edu.

Weighted Grade Point Average (WGPA)

The following are the “Levels” that are used to determine the weighted grade point average.

LEVEL 1 ADVANCED PLACEMENT COURSES

These courses are most intensive offered at UHS and are designed to prepare students to take the Advanced Placement Examination in a particular subject area. A student who earns a grade of 3 or better on an AP Exam is generally considered qualified to receive credit for the equivalent course at one of the 2,900 colleges and universities that give credit for AP Exams. The estimated cost for each AP Exam is \$80.

LEVEL 2 HONORS COURSES

These courses are more intensive than experienced by the majority of our students. Classroom activities require a great deal of independent learning. Course content demands critical, creative, and analytical thinking. Courses will require demonstration of comprehensive understanding of the structure of the discipline. Classroom activities are organized with some teacher assistance. Course content tends to be abstract and/or conceptual.

LEVEL 3 COLLEGE PREPARATORY AND POST-SECONDARY SCHOOL COURSES

Classroom activities are organized with a moderate amount of teacher assistance. Concepts or skills are acquired through memorization and recall. Course content tends to be concrete and not abstract. Assignments may be short or long-term in duration.

UXBRIDGE HIGH SCHOOL - GPA CLASS RANK WEIGHTED FACTORS

Weighted rank-in-class is computed using the following factors:

LEVEL	WEIGHT
1 (Advanced Placement)	1.10 - 10% above grade point average
2 (Honors)	1.05 - 5% above grade point average
3 (College Prep)	1.00 - grade point average

METHOD OF COMPUTATION

Briefly, rank is calculated by multiplying the actual report card grade by the weight given to the level of the course. This yields the weighted grade. The weighted grades are multiplied by the course credit (5). The sums of these weighted grades are then divided by the total number of credits, which in turn gives a weighted average. Below is an example for one trimester’s computation.

Course	[Level]	Grade	Weight	Credits
Tech Ed.	3	85 x	1.00	= 85.00 x 5 = 425.00
AP English	1	85 x	1.10	= 93.50 x 5 = 467.50
Math	3	85 x	1.00	= 85.00 x 5 = 425.00
Honors Government	2	85 x	1.05	= 89.25 x 5 = 446.25
				20 1763.75

1763.75 divided by 20 = **88.18 Weighted Average**

A weighted average accurate to two(2) decimal places is computed at the end of the 9th, 10th, and 11th grades, and first and second trimester of grade 12, taking into account the student’s grade for a given course, the weighting factor determined by the level of that course, and the number of credits. Class ranks for each of these years are determined by putting these weighted averages into descending sequence.

SOME NOTES FOR STUDENTS CONTEMPLATING POST HIGH SCHOOL STUDY

1. The UHS requirement of two years of a Foreign Language is the minimum requirement for most four-year colleges. Some colleges require three or four years of one language.

Students are encouraged to refer to specific college requirements when planning their program.

2. Future nurses should plan to take Chemistry, in addition to four years of college preparatory mathematics. It is also recommended that Anatomy and Physiology be taken.
3. It is recommended that students planning on majoring in engineering in college take mathematics through calculus, chemistry, physics, computer assisted drawing (CAD), and computer courses.
4. It is recommended that students entering majors related to medical/health careers consider taking mathematics through advanced mathematics. Calculus is suggested for a pre-medical program. Anatomy and physiology, chemistry, and physics are strongly recommended. Volunteer or paid work in the health field is suggested, especially for students contemplating a major in physical therapy.
5. For students interested in a Bachelor's Degree in business, it is recommended that they take mathematics through calculus. Computer science courses will also be helpful.
6. Students planning a major in art will normally have to prepare a portfolio of their work. Students are encouraged to take appropriate art courses.
7. For students interested in a major in architecture, it is recommended that mathematics through calculus be taken. It is also recommended that chemistry, physics, CAD, architectural drawing, and art (drawing) be taken.
8. Students considering a career in law should consider taking government, law and creative writing courses.

INDEPENDENT STUDY

An Independent Study is designed for the highly motivated student who wishes to pursue an independent learning experience with the assistance of a supervising teacher. The student must have previously shown dependability, self-discipline, and conscientiousness. The student and teacher must submit a learning project proposal to the appropriate Curriculum & Instruction Leader for approval. The project request must contain the purpose of the project, the objectives to be achieved, the anticipated activities and the method of evaluation planned upon completion of the project. The student must then have the contract signed by a parent prior to submitting it to their counselor. The counselor will submit the contract to the Principal for final approval. The teacher meets with the student on a prearranged schedule to monitor his/her progress and assist as needed. It is the responsibility of the student to find a faculty member willing to do an independent study and to secure the permission of the Curriculum & Instruction Leader.

INSTRUCTIONS FOR COURSE SELECTIONS PROCESS FOR 2009-2010 SCHOOL YEAR

1. All students must be enrolled in fifteen (15) courses or 30-credit equivalent, including at least, one English course, one Social Studies course, one Math course, and one Science course **each year** unless the graduation requirement has been completed for that subject. Each student must record their top fifteen (15) courses plus five (5) alternate courses on their worksheet. Every attempt will be made to place students into their first fifteen choices however; some of the alternate courses may need to be utilized.
2. Students are responsible for enrolling in the courses necessary for UHS Graduation Requirements.
3. Students may select more than one (1) course in an academic area. Courses must be taken in sequence and prerequisites must be met. Please refer to the Program of Studies for specific information.
4. During the scheduling process students will receive appointment slips to meet with their counselors in order to go over course selections. It is imperative that students keep these appointments and bring with them their Program of Studies and completed Course Selection Worksheet. After meeting their counselor, students will receive a copy of their course selections. Guidance counselors will select courses for students who do not meet with them, as requested, during the course selection process.
5. If courses have prerequisites a teacher's signature will be required during a Teacher Recommendation Day. A copy of course selections with Teacher Recommendations will be given to the student to be returned with parent/guardian signature.
6. **The Course Selection Process should be something that students take very seriously. Students should utilize their teachers, parents, and guidance counselor as resources when selecting courses. Students must realize that the Master Scheduler attempts to schedule the top 15 courses selected by each student. Once the Master Schedule is finalized, it becomes difficult for students to make changes to their schedules because courses may be full and not available at the time of the requested change.**

ENGLISH

Grade 9

Honors Freshman English
Freshman English
Theater

Grade 10

Honors Sophomore English
Sophomore English
Sophomore English MCAS Prep
Mystics, Fantasy & the Imagination
Tolkien
Around the World I
Around the World II
Literary Aspects in Film
All the World's A Stage
Comedy and Satire
Mythology
Theater

Grade 11

Honors Junior English
Junior English
Creative Expressions
Mystics, Fantasy & the Imagination
Tolkien
Around the World I
Around the World II
Literary Aspects In Film
All the World's A Stage
Comedy and Satire
Mythology
Theater

Grade 12

AP English
Honors Senior English
Senior English
Creative Expressions
Mystics, Fantasy & the Imagination
Tolkien
Around the World I
Around the World II
Literary Aspects in Film
All the World's A Stage
Comedy and Satire
Mythology
Theater

ENGLISH DEPARTMENT MISSION STATEMENT

The English Department at Uxbridge High School has various goals designed to create successful, life-long learners. Students will be able to develop effective skills and strategies for various types of communication, such as writing, speaking, listening, viewing, and presenting. They will also develop: independent and critical reading skills for a variety of genres; an appreciation of literature and an understanding of its structure and multi-cultural context; study skills, strategies, work habits, and attitudes necessary for success in school and for life in our ever-changing society; the basic skills of language mechanics and expression; and an ability to examine and evaluate information from various media and technological resources. They will be able to understand the dynamics of languages and dialect. Opportunities to pursue special talents and interests through a variety of media and technology will be available to them as well. The English Department requires that a student take freshman English during the freshman year, sophomore English during the sophomore year, junior English during the junior year, and senior English during the senior year. With the exception of the elective courses, students cannot take two years of English during the same year unless they are required to make up credits for courses failed. If this occurs, courses must be taken in the correct 9-12 sequence. Electives are offered in addition to the one-course-per-year requirement, and they cannot substitute for that requirement.

T010/T011 HONORS FRESHMAN ENGLISH A & B**Credits: 2 each trimester Grade 9 120 days***Prerequisite: Achieve an A in Grade 8 English or Teacher Recommendation*

Course Description: This course is designed for the college preparatory student who has exhibited exceptional ability and interest in English. It combines the work in the Freshman English and Sophomore English classes. The course includes more advanced work in vocabulary and language skills, and in MCAS/PSAT/SAT Preparation. Critical analysis will focus on imagery. There will be challenging reading and writing assignments and an independent research project will be completed. A four-page research paper will be required.

T013/T014 FRESHMAN ENGLISH A & B**Credits: 2 each trimester Grade 9 120 days***Prerequisite: None*

Course Description: This course focuses on a broad spectrum of skills and concepts: a refinement and enlargement of vocabulary; a strong emphasis on grammar; improvement in writing and speaking techniques; a study of various literary genres; and a study of classical and mythological literary allusions. Research methods and library skills will be studied. Preparation for the MCAS and PSAT will be ongoing.

T016/T017 HONORS SOPHOMORE ENGLISH A & B**Credits: 2 each trimester Grade 10 120 days***Prerequisite: 85 average or better in Honors Freshmen English or written department recommendation.
90 average or better in Freshmen English and teacher recommendation.*

Course Description: This course is designed for the college-preparatory student who has exhibited exceptional ability and interest in English. It will include advanced-level study of challenging readings. Intensive preparation will be given in literary analysis, writing and speaking skills, and vocabulary acquisition. Included will be ongoing preparation for the MCAS, PSAT and SAT. Critical analysis will concentrate on an understanding of imagery, diction, and structure. Independent projects for groups and individuals will be assigned, and a six-page research paper will be required.

T019/T020 SOPHOMORE ENGLISH A & B**Credits: 2 each trimester Grade 10 120 days***Prerequisite: Freshman English*

Course Description: This course will continue the work begun in freshman English, including vocabulary growth, expository writing, and literary analysis, with a focus on poetry. The study of great literature of the past and present will continue through the exploration of various genres. The course will also include grammar review and a study of understanding and employing multi-media resources for communication and research. Preparation for the MCAS and PSAT/SAT will continue.

T022 SOPHOMORE ENGLISH MCAS PREP**Credits: 2 each trimester Grade: 10 60 days***Prerequisite: English department recommendation*

Course Description: This course will focus on MCAS preparation, focusing on reading and writing skills as well as test taking strategies.

T024/T025 HONORS JUNIOR ENGLISH A & B**Credits: 2 each trimester****Grade: 11****120 days**

*Prerequisite: B (85) average in Honors Junior English, or written department recommendation.
A-(90) average in Junior English in addition to teacher recommendation.*

Course Description: This course is designed for the college preparatory student who has continued to exhibit exceptional ability in freshman & sophomore honors English courses. It will include advance-level study of challenging readings, with a focus on the development of American literature, from colonial times to present. Intensive preparation will be given in writing, vocabulary building, and literary analysis, with a concentration on style. Included will be practice in the verbal sections of the PSAT, SAT, and SAT II in English. Independent projects for groups and individuals will be assigned, and an eight-page research paper will be required.

T027/T028 JUNIOR ENGLISH A & B**Credits: 2 each trimester****Grade: 11****120 days**

Prerequisite: Sophomore English

Course Description: This course is designed for continued practice toward mastery of a wide range of language skills. Focus areas will be writing, reading, discussing, and communicating. The course will stress grammar in writing; reading for information, understanding, and pleasure; research skills; and SAT preparation. The literary focus will be on American literature from colonial times to the present. A five-page research paper will be required.

T030/T031/T032 ADVANCED PLACEMENT ENGLISH A, B, & C**Credits: 2 each trimester****Grade: 12****180 days**

Prerequisite: B (85) in Honors Junior English in addition to teacher recommendation.

Course Description: Advanced Placement English will be a very intensive, fast-paced study of literature and language. It will feature in-depth literary analysis and frequent, college-preparatory writing assignments. Students will learn strategies for taking the AP exam, and they will take several practice exams. Students are required to take the advanced placement test administered by the College Board in May. Note the prerequisite, and see your English teacher if you are interested in a really CHALLENGING English course!

T034/T035 HONORS SENIOR ENGLISH A & B**Credits: 2 each trimester****Grade: 12****120 days**

Prerequisite: B (85) average in Junior English or written department recommendation.

Course Description: This course will continue highly challenging material for the serious student. It will include in-depth studies of literary genres and literary criticism; intensive work in analytical and expository writing; and an extensive study of masterpieces of British literature, from *Beowulf* to modern writers. Students will receive SAT and SAT II preparation, and they will complete independent reading and writing projects. An eight to ten page research paper will be required.

T037/T038 SENIOR ENGLISH**Credits: 2 each trimester****Grade: 12****120 days**

Prerequisite: Junior English.

Course Description: This course works towards mastery of a wide range of language skills. Emphasis will be on writing with intelligence, clarity, organization, style, and imagination. Literary analysis will focus on a survey of British literature, from *Beowulf* to modern writers. Vocabulary study and SAT practice will continue. A six-page research paper will be required.

T040 CREATIVE EXPRESSIONS**Credits: 2 each trimester****Grades: 11-12****60 days***Prerequisite: Approval of department Curriculum and Instruction Leader*

Course Description: Are you searching for a way to channel your creative energies? This course is designed to provide experiences in the various modes of personal expression. The basic curriculum revolves around the study of major authors and their styles, leading students to develop their own ideas through creative writing, speaking, and dramatizing. Students will keep journals, and they will write poems, plays, stories, and reflective essays. The interests and talents of the students can determine the direction of the class. This course is an elective; it does not satisfy the English requirement.

T042 MYSTICS, FANTASY, AND THE IMAGINATION**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: Approval of department Curriculum and Instruction leader.*

Course Description: Travel to other universes and explore the universe of the supernatural in Mystics, Fantasy, and the Imagination. This course will run for one semester and will be comprised of readings and films in the genre of Science Fiction and Supernatural Fiction. Readings will include selected novels, short stories, literary criticism, and plays. Students will be required to write about the literature read in class using the standard conventions required in other English classes.

T044 TOLKIEN**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: Discover the magical world or Tolkien's Middle-Earth. This one semester course will focus on Tolkien's masterpiece *The Lord of the Rings* trilogy. Additionally, students will investigate the influences that inspire Tolkien's writing.

T046 AROUND THE WORLD I**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: Each trimester will explore different and new cultures, customs, and religions through the literature and the world. These courses will focus on authors and cultures not presented in traditional English classes. A strong emphasis will be placed on literary styles and analysis.

T048 AROUND THE WORLD II**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: Each trimester will explore different and new cultures, customs, and religions through the literature and the world. These courses will focus on authors and cultures not presented in traditional English classes. A strong emphasis will be placed on literary styles and analysis.

T050 LITERARY ASPECTS IN FILM STUDIES**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: This one trimester course will reinforce elements of literary analysis through application to a contemporary media. Students will conduct in-depth analysis of films and literary elements infused within them. Readings will include reviews, critiques, and scripts.

FAMILY & CONSUMER SCIENCE

Foods & Nutrition I	Grades 9-12
Foods & Nutrition II	Grades 9-12
Foods & Nutrition – Creative Cuisine	Grades 10-12
Foods & Nutrition – Cultural Cuisine	Grades 10-12
Child Development I	Grades 10-12
Child Development II	Grades 10-12
Early Childhood Education I	Grades 11-12
Early Childhood Education II	Grades 11-12
Teacher Assistant in Early Childhood	Grades 11-12
Independent Living	Grades 11-12
Interior Design	Grades 11-12
The College Application Challenge	Grade 12

FAMILY & CONSUMER SCIENCE MISSION STATEMENT

The course offerings of the Family & Consumer Science Department are aligned with the National Family & Consumer Science curriculum standards. Our unique focus is the relationship between youth, families and careers in a changing global community. The Family & Consumer Science Department seeks to provide our students with the tools needed to:

1. Use critical and creative thinking skills to address the challenges of families and communities in a diverse and global society
2. Practice optimal nutrition and wellness
3. Provide relevant field experiences to parallel classroom work and help identify career goals
4. Appreciate individual worth and accept responsibility for one's actions and success in family, community and career
5. Identify and manage resources needed to meet the material needs of individuals and families
6. Become contributing citizens and leaders in family, community and career settings
7. Strengthen the well-being of individuals, families and communities throughout the life span

T650 FOODS & NUTRITION I

Credits: 2 each trimester Grades: 9-12 60 days

Prerequisite: None

Course Description: This course is designed to give the student an understanding of and an appreciation for basic nutritional information by examining the Dietary Guidelines for Americans. A strong hands-on approach will be utilized. Each food group studied will have a single or group of related food preparation labs that will enhance the information presented. The students will work cooperatively on the food preparation segments but will work independently wherever necessary.

T652 FOODS & NUTRITION II

Credits: 2 each trimester Grades: 9-12 60 days

Prerequisite: 75 or higher in Foods & Nutrition I

Course Description: This course is the continuation of Foods & Nutrition I. The benefits of healthful eating will be further explored while learning successful techniques for planning, shopping and preparing food. The course will contain a strong element of cooperative group work in the food labs as well as independent learning activities.

FOREIGN LANGUAGE

Grade 9

Honors Spanish I
Spanish I
Honors French I
French I
French Impressionism

Grade 11

Honors Spanish I or Spanish I
Honors Spanish II or Spanish II
Honors Spanish III or Spanish III
Honors Spanish IV or Spanish IV
Honors Spanish V or Spanish V
Honors French I or French I
Honors French II or French II
Honors French III or French III
Honors French IV
Honors French V
French Impressionism

Grade 10

Honors Spanish I or Spanish I
Honors Spanish II or Spanish II
Honors Spanish III or Spanish III
Honors French I or French I
Honors French II or French II
Honors French III or French III
French Impressionism

Grade 12

Honors Spanish I or Spanish I
Honors Spanish II or Spanish II
Honors Spanish III or Spanish III
Honors Spanish IV or Spanish IV
Honors Spanish V or Spanish V
Honors Spanish Seminar
AP Spanish
Honors French I or French I
Honors French II or French II
Honors French III or French III
Honors French IV
Honors French V
Honors French Seminar
French Impressionism

NOTE: College bound students are recommended to take 4 or more years of the same foreign language.

In order to achieve an acceptable level of communication and understanding, it is strongly recommended that students take all language courses sequentially and avoid a break between courses.

FOREIGN LANGUAGE DEPARTMENT MISSION STATEMENT

The Uxbridge High School Foreign Language Department provides students the opportunities to learn to communicate with people of other cultures, develop a better understanding of others and themselves, and broaden their knowledge of the world through a greater awareness and understanding of the diverse cultures of the countries whose language they are learning. Students are encouraged to compare their native language and culture to the French and Spanish language and culture. It is the goal of the Foreign Language Department to help students develop and implement strategies that allow them to speak, read, write, and understand French or Spanish at the level appropriate to their grade and developmental stage outlined in the Massachusetts Foreign Language curriculum. The opportunity for written and oral practice encourages creativity and self-expression. The use of computer/multimedia technology connects students to a broader cultural learning experience. Content from other academic disciplines is integrated into foreign language courses in order to assist students in gaining and furthering their knowledge of French or Spanish. Students are encouraged to connect their classroom knowledge to real-life experiences.

T400/T401 HONORS SPANISH I A & B**Credits: 2 each trimester****Grades: 9-12****120 days**

Prerequisite: 90 or higher in 8th grade Spanish and English and the recommendation from the previous foreign language teacher or Foreign Language Curriculum and Instruction Leader

Course Description: Students in the honors course follow the same syllabus as Spanish 1 (please see the Spanish 1 course description below) however this course differs in pacing and depth of material. Reading, writing and speaking skills are expanded and supplement the text. More emphasis is put on homework, grammar preparation at home and outside projects. Therefore, students in this class are expected to work independently from the teacher as the coursework requires. Use of Spanish is emphasized therefore students are required to speak in Spanish in front of the class, with other students and with the teacher.

T403/404 SPANISH I A & B**Credits: 2 each trimester****Grades: 9-12****120 days**

Prerequisite: None

Course Description: Spanish I is an introductory course that focuses on learning how the people of the Hispanic world communicate with each other. This course introduces the language and culture of the Spanish-speaking world through a focus on vocabulary and communication. The standards-based curriculum includes the use of a textbook, audio-visual materials, and whenever possible, native speakers. The overall objective is for students to begin developing a foundation that with time and continuous study of upper level Spanish courses provides them with the skills to communicate with and be understood by native Spanish speakers. Furthermore, students learn how Spanish speakers live and how they react to specific cultural situations. Throughout the course, students contrast cultural patterns in the Spanish speaking world with the student's own native culture. To assist the students with the materials, they will learn how to use linguistic terminology and how to contrast and compare what they know about English and apply it to second language learning. On a regular basis, students will work in the language lab. The language lab offers the students the opportunity to listen to native speakers of Spanish in authentic contexts, to dialogue in Spanish with other students, and to record their work for practice and/or assessment.

T406/T407 HONORS SPANISH II A & B**Credits: 2 each trimester****Grades: 10-12****120 days**

Prerequisite: 90 or higher in Honors Spanish I and/or teacher recommendation.

Course Description: This course will cover the same material as Spanish II, (please see the Spanish II course description below) but is designed for students who continue to exhibit exceptional ability in the study of Spanish. Productive communicative skills are emphasized and students are required to use the Spanish in class. Students in this course are expected to work independently from the teacher, do more grammar preparation at home and complete projects outside of the classroom. Students are required to write full-page essays in Spanish and give presentations in Spanish in front of the class. Outside projects are assigned. The language lab will be used on a regular basis, allowing students the opportunity to listen to native speakers of Spanish in authentic contexts, and to record their work for practice and/or assessment. This course is primarily conducted in Spanish.

T409/T410 SPANISH II A & B**Credits: 2 each trimester****Grades: 10-12****120 days**

Prerequisite: 70 or higher in Spanish I

Course Description: Spanish II is the second level of the course Spanish I described above. In pursuing the study of Spanish, this course introduces the more complex structures of basic Spanish. It expands and reinforces the cultural and grammatical themes of the first level. The student's language tasks increase in degree of difficulty as the course progresses. Students are required to do projects, write full-page essays in Spanish and give presentations in Spanish in front of the class. On a regular basis, students will work in the language lab. The language lab offers the students the opportunity to listen to native speakers of Spanish in authentic contexts, and to record their work for practice and/or assessment. This course is primarily conducted in Spanish.

T412/T413 HONORS SPANISH III A & B**Credits: 2 each trimester** **Grades: 10-12** **120 days***Prerequisite: 85 or higher in Honors Spanish II and/or teacher recommendation.*

Course Description: This course continues the honors level program in the study of Spanish. The content of this course requires that students speak Spanish and become involved in discussions and readings in the language. Students are required to write full-page essays in Spanish and to give presentations in Spanish in front of the class. Outside projects and/or readings are assigned. In addition, students do most of the grammar preparation at home. The language lab is used on a regular basis giving the students the opportunity to listen to native speakers of Spanish, and to record their work for practice and/or assessment. This class is conducted primarily in Spanish.

T415/T416 SPANISH III A & B**Credits: 2 each trimester** **Grades: 10-12** **120 days***Prerequisite: 75 or higher in Spanish II and/or teacher recommendation.*

Course Description: Spanish III continues the grammatical structures and the vocabulary necessary to allow students to expand their communicative proficiency and further their appreciation of the culture. Emphasis in this course is on speaking and writing in Spanish. Discussion and readings are incorporated to enhance this course. The language lab is used on a regular basis giving the students the opportunity to listen to native speakers of Spanish in authentic contexts, and to record their work for practice and/or assessment. This course is primarily conducted in Spanish.

T418/T419 HONORS SPANISH IV A & B**Credits: 2 each trimester** **Grades: 11-12** **120 days***Prerequisite: 85 or higher in Honors Spanish III and/or teacher recommendation.*

Course Description: Students in Honors Spanish IV apply the language concepts studied in previous honor level courses and advance their exploration of higher level concepts. More challenging material is read. Literary excerpts and grammar are more complex. There are weekly reading, writing assignments and other projects. Students do most of the grammar preparation at home and are encouraged to work independently. The language lab is used on a regular basis giving students the opportunity to listen to native Spanish speakers and to record their work for practice and assessment. This course is conducted primarily in Spanish.

T421/T422 SPANISH IV A & B**Credits: 2 each trimesters** **Grades: 11-12** **120 days***Prerequisite: 75 or higher in Spanish III and/or teacher recommendation..*

Course Description: Spanish IV is a course designed to build on the linguistic strengths of the student and develop a further understanding of the Spanish, Hispanic and Latin cultures. As in previous courses students are required to write essays, read stories, speak and complete listening activities. Students are encouraged to use the target language in this course and the class is primarily conducted in Spanish. The language lab is used on a regular basis giving the students the opportunity to listen to native speakers of Spanish, and to record their work for practice and/or assessment.

T424/T425 HONORS SPANISH V A & B**Credits: 2 each trimester** **Grades: 11-12** **120 days***Prerequisite: 85 or higher in Honors Spanish IV and/or teacher recommendation.*

Course Description: Honors Spanish V is dedicated to furthering the application of listening, speaking, reading and writing. Topics focusing on history, culture and literature are the core of class discussions, compositions and projects. Students are encouraged to become aware of issues of concern to Hispanic Americans as well as those who live in other parts of the Spanish-speaking world. Weekly writing assignments and projects are a part of this course. Grammar will be reviewed as needed. Class is conducted in Spanish and students are expected to speak Spanish during class. The language lab is used on a regular basis giving the students the opportunity to listen to native speakers of Spanish, and to record their work for practice and/or assessment.

T427/T428 SPANISH V A & B**Credits: 2 each trimester****Grades: 11-12****120 days***Prerequisite: 75 or higher in Spanish IV and/or a teacher recommendation.*

Course Description: Through the use of films, readings, music, and class activities students learn about the lives and work of several Hispanic historical figures. The course focuses on individuals who are admired in their culture for their struggle to overcome social, economical, cultural, and/or personal obstacles. Each of their fascinating life stories includes discussion about political and personal conflicts. The subjects of the course may include Selena Quintanilla Pérez, Evita Perón, Frida Kahlo, Che Guevara, and Emiliano Zapata. This course is conducted primarily in Spanish and direct grammar instruction is based on student need. The emphasis of the course is acquiring vocabulary and using it to speak in a seminar-style environment. This course is conducted primarily in Spanish.

T430/T431 HONORS SPANISH SEMINAR A & B**Credits: 2 each trimester****Grade: 12****120 days***Prerequisite: 85% or higher in Honors Spanish V and Language Department approval*

Course Description: The emphasis in Honors Spanish Seminar is speaking. This seminar provides opportunities for students to develop fluency and improve pronunciation. Thus students are expected to communicate exclusively in Spanish. To develop their skill students use a variety of media, such as films, audio recordings, lectures and text. Whenever possible, guest speakers and class trips supplement the class work. Students are also required to write. The written assignments may include description, narratives, and persuasive arguments. Some research may be required. Main points of grammar and vocabulary are reviewed, as needed, to improve the students' communication skills. Students must be active seminar students; initiate discussion; be willing to work closely with others; share their thoughts, opinions, and personal experiences; work independently from the teacher; be willing to take risks; and reevaluate errors in order to further learning. Evaluation in this course is primarily in the spoken form but may include written evaluation also.

T433/434/435 AP SPANISH A, B, & C**Credits: 2 each trimester****Grade: 12****180 days***Prerequisite: 85 or higher in Spanish V Honors and/or a teacher recommendation.*

Course Description: This course focuses on sharpening and integrating the skills of listening, reading, speaking and writing in Spanish. It offers extensive preparation for the AP Spanish Language Exam and many of the class activities are designed to mimic those found on the AP exam. The emphasis of the course is acquisition of vocabulary and the curriculum centers on common themes that come up in everyday social interactions. Topics include the home, school, entertainment, technology, and politics. Students learn about cultural figures and events through the use of authentic audio and reading material. Very little English is used in this class. Students are expected to work independently from the teacher, complete work over the summer, and as the testing date draws near, meet with the teacher outside of class time in a group setting. Student enrolled in this course are required to take the AP exam. Cost is approximately \$80.00. A non-refundable \$25.00 deposit must be given by the fourth week of class.

T440/T441 HONORS FRENCH I A & B**Credits: 2 each trimester****Grades: 9-12****120 days***Prerequisite: 90 or higher in 8th grade Foreign Language and English and written recommendation of the previous Foreign Language teacher or Foreign Language Curriculum and Instruction Leader*

Course Description: Students in the honors course follow the same syllabus as French 1 (please see the French 1 course description below) however this course differs in pacing and depth of material. Reading, writing and speaking skills are expanded and supplement the text. More emphasis is put on homework, grammar preparation at home and outside projects. Therefore, students in this class are expected to work independently from the teacher as the coursework requires. Use of French is emphasized therefore students are required to speak in French in front of the class, with other students and with the teacher.

T443/T444 FRENCH I A & B**Credits: 2 each trimester****Grades: 9-12****120 days***Prerequisite: none*

Course Description: This introductory course will present the language and its culture within the context of the contemporary French-speaking world through the use of a standards-based curriculum using a textbook, audio-visual materials and daily exposure to the spoken language. The main objective is to develop an ability to listen, speak, read, and write in French as identified in the Massachusetts State Frameworks and attain an intermediate level of proficiency. Students will analyze contrasts and similarities between the French and American cultures thus enriching and broadening the students' understanding of the world in which they live. Students will work in the language laboratory giving them the opportunity to listen to native speakers of French, dialogue in French with other students, and record their work for practice and/or assessment.

T446/T447 HONORS FRENCH II A & B**Credits: 2 each trimester****Grades: 10-12****120 days***Prerequisite: 90 or higher in French I and/or a teacher recommendation.*

Course Description: This course will cover the same material as French II, (please see the French II course description below) but is designed for students who continue to exhibit exceptional ability in the study of French. Productive communicative skills are emphasized and students are required to use French in class. Students are required to write full-page essays in French and give presentations in French. Outside projects are assigned. The language lab will be used on a regular basis giving students the opportunity to listen to native speakers of French and to record their work for practice and/or assessment. This course is primarily conducted in French.

T449/T450 FRENCH II A & B**Credits: 2 each trimester****Grades: 10-12****120 days***Prerequisite: 70 or higher in French I and/or teacher recommendation.*

Course Description: French II gives particular attention to aural and oral proficiency, reading, writing, and thinking in French. Students will become more acquainted with the experiences and activities of their French counterparts in Francophone areas of the world thus developing a positive attitude toward the culture. Additional structure and vocabulary are introduced. Students will be required to write full-page essays in French and give presentations in French. The language laboratory is used on a regular basis giving students the opportunity to listen to native speakers of French and to record their work for practice and/or assessment.

T452/T453 HONORS FRENCH III A & B**Credits: 2 each trimester****Grades: 10-12****120 days***Prerequisite: 85 or higher in Honors French II and/or teacher recommendation.*

Course Description: This course continues the honors level program in the study of French. The content of this course requires that students speak French and become involved in discussions and readings in the language. The students are required to write full-page essays in French and to give presentations in French in front of the class. Outside projects and/or readings are assigned. The language lab is used on a regular basis giving the students the opportunity to listen to native speakers of French, and to record their work for practice and/or assessment. This class is conducted primarily in French.

T455/T456 FRENCH III A & B**Credits: 2 each trimester****Grades: 10-12****120 days***Prerequisite: 75 or higher in French II and/or a teacher recommendation.*

Course Description: As with previous French courses, French III is oriented toward the student who is motivated to learn to speak and write in French. This course continues the progressive development of the four skills of communication with emphasis on more advanced grammar, increased vocabulary, and idiomatic expression. Students are required to speak French and become involved in discussions in French. Full-page written essays are required. The language laboratory is used on a regular basis giving the students the opportunity to listen to native speakers of French and to record their work for practice and/or assessment.

T458/T459 HONORS FRENCH IV A & B
Credits: 2 each trimester Grades: 11-12 120 days

Prerequisite: 85 or higher in Honors French III and/or a teacher recommendation.

Course Description: Emphasis in this course is on student discussion of cultural and literary themes. Students are encouraged to actively participate in classroom discussion in French. Students are exposed to typical exemplary extracts of literature of the Francophone world. Students in this course read more challenging material with more complex grammar. Projects and essays are in French. Further emphasis is placed on written expression with weekly writing assignments in French being required. Grammar is reviewed as needed.

T461/T462 HONORS FRENCH V A & B
Credits: 2 each trimester Grades: 11-12 120 days

Prerequisite: 85 or high in Honors French IV and/or a teacher recommendation.

Course Description: While further developing the language skills of listening, speaking, reading, and writing, the main focus of this course is the history, culture, literature, and film of the francophone world. Discussions, projects and essays are in French. Students are encouraged to keep up-to-date on current issues relating to the French culture. Weekly writing assignments are required in this course with grammar being reviewed as needed. Class is conducted in French and students are expected to speak French in class.

T464/T465 HONORS FRENCH SEMINAR A & B
Credits: 2 each trimester Grade: 12 120 days

Prerequisite: 85% or higher in Honors French V and Language Department approval

Course Description: The emphasis in Honors French Seminar is speaking. These seminars provide opportunities for students to develop fluency and improve pronunciation. Thus students are expected to communicate exclusively in French. To develop their skill students use a variety of media, such as videos, films, audio recordings, lectures and text. Whenever possible, guest speakers and class trips supplement the class work. Students are also required to write. The written assignments may include description, narratives, and persuasive arguments. Some research may be required. Main points of grammar and vocabulary are reviewed, as needed, to improve the students' communication skills. Students must be active seminar students; initiate discussion; be willing to work closely with others; share their thoughts, opinions, and personal experiences; work independently from the teacher; be willing to take risks; and reevaluate errors in order to further learning. Evaluation in this course is primarily in the spoken form but may include written evaluation also.

T467 FRENCH IMPRESSIONISM
Credits: 2 each trimester Grades: 9-12 60 days

Prerequisite: none

Course Description: This course is designed to teach about the Impressionism Movement that emerged in France during the second half of the nineteenth century. In this course, students learn what the Impressionism Movement was, who the French Impressionists were, their lives, the style and technique they used in their painting, what cultural background influenced the Impressionists and how Impressionism differs from Classical Art. Students explore their own artistic talents as they make replicas of French Impressionism paintings and if possible, visit an art museum to view Impressionist paintings. This course is conducted in English and is open to students interested in history, art, and/or the French culture.

MATHEMATICS

Grade 9

Algebra I
Honors Algebra II
Algebra II
Fundamentals of Algebra/Geometry I
Honors Geometry
Geometry (can be taken w/year long Alg. II)

Grade 10

Hon Algebra II
Algebra II
Fundamentals of Algebra/Geometry II
Honors Geometry
Geometry
Honors Pre-Calculus
Pre-Calculus

Grade 11

Algebra II
Hon Pre-Calculus
Pre-Calculus
AP Calculus
Honors Calculus
Calculus
Honors Statistics
Statistics
Intro to College Math
Applied Math
SAT Prep

Grade 12

Hon Pre- Calculus
Pre-Calculus
AP Calculus
Hon Calculus
Calculus
Honors Calculus II
Hon Discrete Math
Honors Statistics
Statistics
Intro to College Math
Applied Math
SAT Prep

MATHEMATICS DEPARTMENT MISSION STATEMENT

The ultimate goal of the mathematics department is to develop the mathematical skills necessary for each student to extend his/her experiences in mathematics to applications in other areas of life. In order to reach this goal, we strive to make each student mathematically literate and to develop the ability to think logically. Opportunities for discovery and creativity will be provided at each student's level of ability, thus increasing favorable attitudes toward mathematics. Career information using mathematical knowledge as well as the understanding of the importance of mathematics in their futures will be made available to the students.

NOTES:

1. All students enrolled in Fundamentals of Algebra/Geometry I, II, and Applied Math, are **required** to have their own Scientific Calculator.
2. Students in all Algebra I, Algebra II, Geometry, Pre-Calculus, Intro to College Math, Statistics, and Calculus courses are **required** to have their own TI-83 Plus or TI-84 Plus Graphing Calculator.
3. It is recommended for testing purposes (MCAS, PSAT, ETC) that students complete Algebra I, Geometry, and Algebra II by the end of sophomore year.
4. It is recommended for testing purposes (MCAS, PSAT, ETC) that students complete Fundamentals of Algebra/Geometry I, and II by the end of sophomore year.
5. Pre-Calculus must be completed by the end of the junior year if the student plans to take any Calculus or Statistics offering.

T201/T202/T203 ALGEBRA I A, B, & C**Credits: 2 each trimester** **Grade: 9** **180 days***Prerequisite: Current math teacher recommendation*

Course Description: This course presents solving equations and inequalities in one and two variables with applications in word problems. Students will also study polynomials, functions, graphs, factoring, introduction to probability and statistics, and right triangle Trigonometry. *Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.*

T205/T206 HONORS ALGEBRA II A & B**Credits: 2 each trimester** **Grades: 9-10** **120 days***Prerequisite: 9th: Grade of 90 or higher in 8th grade math and current math teacher recommendation**10th: Either grade of 90 or higher in Algebra I and math teacher recommendation; or permission of C & I Leader.*

Course Description: This course will study all of the traditional topics of Algebra II at a faster pace and will also include a continuation of topics from probability. In each unit the most difficult problems in the exercises will be completed. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T208/T209/T210 ALGEBRA II A, B, & C**Credits: 2 each trimester** **Grade: 9** **180 days***Prerequisite: Grade of 80 or higher in 8th grade math and current math teacher recommendation.*

Course Description: This course offers a review and extension of Algebra I. The real number system is extended to the complex number system and topics such as quadratic functions, polynomial functions, and probability are studied. *Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.*

T212/T213 ALGEBRA II A & B**Credits: 2 each trimester** **Grades: 10-11** **120 days***Prerequisite: Successful completion of Algebra I.*

Course Description: This course offers a review and extension of Algebra I. The real number system is extended to the complex number system and topics such as quadratic functions, polynomial functions, and probability are studied. *Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.*

T215/T216/T217 FUNDAMENTALS OF ALGEBRA/GEOMETRY I A, B, & C**Credits: 2 each trimester** **Grade: 9** **180 days***Prerequisite: Current math teacher recommendation*

Course Description: This course begins with an in depth review of basic skills such as fractions, decimals, percents, LCM, GCF, order of operations, and estimation. Topics include introductory statistics, perimeter and area, the use of variables in simple algebraic expressions, the solving the graphing of linear equations, and solving and graphing of inequalities in one and two variables. Students must supply their own scientific calculator.

T219/T220/T221 FUNDAMENTALS OF ALGEBRA/GEOMETRY II A, B, & C**Credits: 2 each trimester** **Grade: 10** **180 days***Prerequisite: Successful completion of Fundamentals of Algebra/Geometry I*

Course Description: The basic skills covered from Fundamentals of Algebra/Geometry I are reviewed. Topics include, but are not limited to the following: linear equations, linear inequalities, complex expressions, solving systems of linear equations, the application to real-life situations, topics in geometry and introductory probability. Students must supply their own scientific calculator.

T223/T224 HONORS GEOMETRY A & B**Credits: 2 each trimester****Grades: 9-10****120 days***Prerequisite: 9th: Grade of 90 or higher in 8th grade math and current math teacher recommendation**10th Either grade of 90 or higher in Algebra I and teacher recommendation; or permission of C & I Leader.**10th Either grade of 90 or higher in yearlong Algebra II and teacher recommendation; or permission of CIL.*

Course Description: This course presents all of the concepts of Euclidean Geometry as well as the use of the coordinate system in studying geometric concepts and real world applications. The *Geometer's Sketchpad* will be used. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T226/T227 GEOMETRY A & B**Credits: 2 each trimester****Grade: Grades: 9-10****120 days***Prerequisite: Successful completion of Algebra I (can be taken with Algebra II)*

Course Description: This course presents Euclidean Geometry using deductive reasoning. Topics include congruence, similarity, right-triangle trigonometry Pythagorean Theorem, circles, areas, and volumes. The *Geometer's Sketchpad* will be used. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T229/T230/T231 HONORS PRE-CALCULUS A, B, & C**Credits: 2 each trimester****Grades: 10-12****180 days***Prerequisite: Either grade of 80 or higher in BOTH Honors Algebra II and Honors Geometry with teacher recommendation; or permission of C & I Leader.*

Course Description: This course expands upon linear, quadratic, and general polynomial functions, circular and triangle trigonometry with related topics, conic sections, sequences, series, exponential and logarithmic functions. Introductory concepts of Calculus such as limits, matrix algebra, vector analysis will be included as well as an in-depth study of probability and statistics. Students must supply their own TI-83 plus or TI-84 plus graphing calculator.

T233/T234/T235 PRE-CALCULUS A, B, & C**Credits: 2 each trimester****Grades: 10-12****180 days***Prerequisite: Either grade of 75 or higher in BOTH Algebra II and Geometry with teacher recommendation; or grade of 80 or higher in Intro to College Math with teacher recommendation; or permission of C & I Leader*

Course Description: This course will expand upon linear, quadratic, and general polynomial functions, circular and triangle trigonometry, sequences, series, exponential and logarithmic functions, conic sections, probability, and statistics. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T237/T238/T239 ADVANCED PLACEMENT CALCULUS A, B, & C**Credits: 2 each trimester****Grades: 11-12****180 days***Prerequisite: Either grade of 80 or higher in Honors Pre-Calculus and current math teacher recommendation; or permission of C & I Leader.*

Course Description: This course offers a detailed investigation of limits; methods of differentiation and integration. Functions such as polynomial, circular, logarithmic, and exponential, area under curves; and related rate problems are studied. A good deal of time is spent on applications. Extensive preparation is given for the College Board Calculus AB exam which is administered in May. Students are required to take the A.P. exam. Cost is approximately \$80.00. A **non-refundable** \$25.00 deposit must be given by the fourth week of class. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T241/T242 HONORS CALCULUS A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Either grade of 80 or higher in Honors Pre Calculus and current math teacher recommendation; or permission of C & I Leader.

Course Description: This course is offered to students who have demonstrated exceptional ability in mathematics. It offers an extensive investigation of the derivatives and integrals elementary functions, including polynomial, circular, logarithmic, and exponential functions. A good deal of time is spent on applications of these concepts. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T244/T245 CALCULUS A & B**Credits: 2 each trimester****Grade: 12****120 days**

Prerequisite: Either grade of 75 or higher in Pre-Calculus and current math teacher recommendation; or permission of C & I Leader.

Course Description: This course is intended for the student who does not meet the prerequisites for the Advanced Placement Calculus course but who wants an introduction to Calculus. Topics include the derivative and integral of elementary functions such as polynomial, circular, logarithmic, and exponential; limits; area under curves. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T247 HONORS CALCULUS II**Credits: 2 each trimester****Grade: 12****60 days**

Prerequisite: Either grade of 80 or higher in Advanced Placement Calculus or Honors Calculus with current math teacher recommendation; or permission of C&I Leader. [This course is restricted to seniors only.]

Course Description: Topics include a brief review of derivatives and antiderivatives; integration by parts and partial fractions; improper integrals; polynomial approximations; and series. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T249 HONORS DISCRETE MATHEMATICS**Credits: 2 each trimester****Grade: 12****60 days**

Prerequisite: Either grade of 80 or higher in Advanced Placement Calculus or Honors Calculus with current math teacher recommendation or permission of C&I Leader. This course is restricted to seniors only

Course Description: Topics include logic and proof; truth tables; methods of proof-direct, contradiction, contra positive, and, counter-example; mathematical induction; combinatorics and probability; set theory; modular arithmetic; functions; and recurrence relations. Problem solving will be integral part of the course.

T251/T252 HONORS STATISTICS A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Either successful completion of Honors Pre-Calculus and current math teacher recommendation; or permission of C & I Leader

Course description: This course will begin with an overview of introductory probability topics. Topics include average and variation, the organization of data, normal distribution, estimation, regression and hypothesis testing as well as other advanced topics. Students must supply their own TI-83 plus or TI-84 plus graphing calculator.

T254/T255 STATISTICS A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Either successful completion of Pre-Calculus and current math teacher recommendation; or permission of C & I Leader

Course description: This course begins with an overview of introductory probability topics. Topics include average, the organization of data, normal distribution, estimation, regression and hypothesis testing. Students must supply their own TI-83 plus or TI-84 plus graphing calculator.

T257/T258 INTRODUCTION TO COLLEGE MATH A & B

Credits: 2 each semester Grades: 11&12 120 days

Prerequisite: Either successful completion of Algebra II and Geometry with current math teacher recommendation; or permission of C & I Leader.

Course Description: This course is designed for the junior or senior who does not meet the prerequisite for Pre-Calculus. Topics include a review of algebra and geometry concepts, circular and right triangle trigonometry, sequences and series, introductory probability, and set theory. Students must supply their own TI-83 Plus or TI-84 Plus graphing calculator.

T260 APPLIED MATHEMATICS

Credits: 2 each trimester Grades: 11-12 60 days

Prerequisite: Either successful completion of Fundamentals of Algebra/Geometry II and current math teacher recommendation; or permission of C & I Leader.

Course Description: The student will use previous math topics to solve real life applications. Topics include applications in income, credit and loans, taxes, housing, automobiles, insurance, investments, banking, shopping, and statistics. Students will become familiar with how math is used in different careers. Students must supply their own TI-83 Plus graphing calculator.

T262 SAT PREPARATION

Credits: 2 each trimester Grades: 11-12 60 days

Prerequisite: Either successful completion of Algebra II and Geometry and current math teacher recommendation; or Fundamentals of Algebra & Geometry II and teacher recommendation; or permission of C & I Leader

Course Description: This course is designed for the junior or senior who plans to take the College Board Scholastic Aptitude Test in mathematics. Topics include arithmetic/numbers and operations; a review of Algebra and functions; Geometry and measurement; number patterns, probability, statistics and data analysis; as well as test taking strategies specific to the exam. Students must supply their own calculator.

MUSIC

Concert Band	Grades 9-12
Concert Choir	Grades 9-12
Fundamentals of Guitar	Grades 9-12
Music Theory I	Grades 9-12
Music Theory II	Grades 9-12
Music Appreciation	Grades 9-12

AFTER SCHOOL MUSIC:

Concert Band/Part-time	Grades 9-12
Concert Choir/Part-time	Grades 9-12
UHS Jazz Band	Grades 9-12
UHS Rock/Blues Band	Grades 9-12

MUSIC DEPARTMENT MISSION STATEMENT

The Music Program utilizes performance and non-performance based electives, and co-curricular performance ensemble opportunities, to establish the foundation for lifelong learning in the arts. Students learn critical thinking and problem solving skills in order to develop their abilities in the areas of artistic and creative expression.

The goals of the Music Program are the following:

1. To encourage students to utilize a variety of learning strategies in the analysis, performance and interpretation of musical compositions.
2. To encourage students to be active music makers and listeners.
3. To introduce students to a variety of musical sounds, styles, genres and techniques
4. To improve students' ability to synthesize and apply information in musical environments.
5. To promote excellence in the areas of problem solving, creativity and musicianship.
6. To encourage students to develop in the areas of artistic and creative expression.
7. To encourage students to bridge subject areas and to make interdisciplinary connections.

T800/T801/T802 CONCERT BAND A, B, & C

Credits: 2 each trimester

Grades: 9-12

60, 120, or 180 days

Prerequisite: The ability to read music or permission of instructor. The ability to perform on a brass, woodwind, or percussion instrument

Course Description: This course is intended to introduce and reinforce concepts integral to instrumental music performance. The focus of the class is primarily performance-based: members of the class will develop technical facility on their instrument and study the many aspects of ensemble performance. The band will rehearse and perform standard concert band repertoire. Students are required to attend and participate in evening performances.

T804/T805/T806 CONCERT CHOIR A, B, & C

Credits: 2 each trimester

Grades: 9-12

60, 120, or 180 days

Prerequisite: None. Prior experience in vocal ensembles is helpful but not required.

Course Description: This course is intended to introduce and reinforce concepts integral to choral music performance. The focus of the class is primarily performance-based: members of the class will rehearse and perform unison and multi-part choral repertoire. Students are required to attend and participate in evening performances.

T824/T825/T826 UHS CONCERT CHOIR (After School) A, B, & C

Credits: .5 each trimester

Grades: 9-12

Full year/afternoon or evenings

Prerequisite: Teacher Recommendation or permission of C & I Leader

Course Description: An extracurricular choral music performance ensemble. Choral literature of all kinds will be rehearsed and performed. Credit will be awarded based upon chorus members' regular attendance, both at rehearsals and performances. Public performances may include (but are not limited to) in-school assemblies, evening concerts, community events and music festivals.

T828/T829/T830 UHS JAZZ BAND (After School) A, B, & C

Credits: .5 each trimester

Grades: 9-12

Full year/afternoon or evenings

Prerequisite: Teacher Recommendation or permission of C & I Leader; The ability to read music and the ability to perform on a brass or woodwind instrument, piano, bass, guitar or drums.

Course Description: An extracurricular jazz music performance ensemble. Musical repertoire covering the range of jazz styles and genres will be explored, rehearsed and performed. Credit will be awarded based upon jazz band members' regular attendance, both at rehearsals and performances. Public performances may include (but are not limited to) in-school assemblies, evening concerts, community events and music festivals.

T832/T834/T836 UHS ROCK/BLUES BAND (After School) A, B, & C

Credits: .5 each trimester

Grades: 9-12

Full year/afternoon or evenings

Prerequisite: Teacher Recommendation or permission of C & I Leader; The ability to read music is very helpful and the ability to perform on guitar, keyboards, bass, drums or the ability to sing in the pop/rock/blues style.

Course Description: An extracurricular rock, blues and pop music performance ensemble. Repertoire covering the range of rock, blues and pop music styles will be explored, with an emphasis on group performance in an informal atmosphere. Credit will be awarded based upon rock/blues band members' regular attendance, both at rehearsals and performances.

SCIENCE

Grade 9

Honors Intro Physics/Technology

Intro Physics/Technology

Grade 10

AP Biology

Honors Biology

Biology

Honors Biology II

Honors Chemistry

Chemistry

Grade 11

AP Biology

Honors Biology II

AP Chemistry

Honors Chemistry

Chemistry

Honors Chemistry II

Honors Physics

Physics

Honors Anatomy & Physiology

Forensic Science I

Forensic Science II

Horticulture

Landscape Design

Environmental Science

Aquatic Ecology

Grade 12

AP Biology

Honors Biology II

AP Chemistry

Honors Chemistry

Chemistry

Honors Chemistry II

Honors Physics

Physics

Honors Anatomy & Physiology

Honors Anatomy & Physiology II

Forensic Science I

Forensic Science II

Horticulture

Landscape Design

Environmental Science

Aquatic Ecology

SCIENCE DEPARTMENT MISSION STATEMENT

All students who graduate from the Uxbridge High School need to be scientifically literate in order to make informed decisions. It is our goal to present students with a solid foundation of the major scientific principles that have impacted the development of all medical and technological advances to date. We strive to teach our students to use the scientific methods of data collection, interpretation and analysis of data which are all essential for scientific literacy. With a solid background of scientific concepts and with the ability to use technology to seek answers, our students will be prepared for the challenges of the future.

T301/T302/T303 HONORS INTRODUCTORY PHYSICS/TECHNOLOGY A, B, & C

Credits: 2 each trimester

Grade: 9

180 days

Prerequisite: Grade of 90 in eighth grade science and math or instructor/ Curriculum & Instruction Leader permission.

Course Description: This course presents concepts contained in the Massachusetts Science Frameworks for Introductory Physics and Technology. The course seeks to prepare students for the MCAS test and is intended to develop problem solving, critical thinking, and knowledge of technology systems and the nature of scientific inquiry. Project-based activities will provide students with relevant hands-on reinforcement of technology/engineering and science concepts. Homework may consist of readings from the two texts, worksheets, research assignments and an electronic journal. The Honors program lends itself to a deeper emphasis on problem solving, more rigorous mathematical computations, as well as, more in depth writing.

T319/T320 HONORS BIOLOGY II A & B**Credits: 2 each trimester****Grades: 10-12****120 days**

Prerequisite: Grade of 85 or better in Honors Biology or Instructor/ Curriculum & Instruction Leader permission.

Course Description: This course takes the study of biology further for the student who indicates a real interest in the life sciences. The content includes classification, diversity and adaptations of organisms, human biology, advanced principles of heredity, evolution and ecology. Lab activities provide students with relevant hands-on reinforcement of the scientific concepts covered in the course. Homework consists of reading from the text, laboratory reports, and other assignments. The Honors program puts heavy emphasis on problem solving with the application of mathematical analysis to experimental work. Students are required to design, conduct and present an independent scientific experiment. This class will provide opportunity for community service.

T322/T323/T324 AP CHEMISTRY A, B, & C**Credits: 2 each trimester****Grades: 11-12****180 days**

Prerequisite: Grade of 80 or better in Honors Biology, Algebra I and II or Instructor/ Curriculum & Instruction Leader permission.

Course Description: The AP Chemistry course is designed for the college bound student who is considering a major in science, chemistry or pre-medicine. The course is the equivalent of the general chemistry course usually taken during the first year of college. For some students, this course will enable them to take second-year work in chemistry at their college or to register for courses in fields where general college chemistry is a prerequisite. Topics such as the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, acid/base reactions, redox reactions and the basic concepts of thermodynamics will be presented in significant depth. A calculator is necessary for the mathematical basis of the course.

T326/T327 HONORS CHEMISTRY A & B**Credits: 2 each trimester****Grades: 10-12****120 days**

Prerequisite: Grade of 80 or better in Honors Biology, Algebra I and II or Instructor/ Curriculum & Instruction Leader approval.

Course Description: This course is designed for college bound science majors and honors students who have demonstrated exceptional ability in the sciences. Emphasis is placed on theoretical and mathematical aspects of Chemistry in the areas of: atomic structure, nomenclature, periodicity, bonding, types of reactions, stoichiometry, and gas laws. Students are expected to demonstrate ability to perform basic lab tasks and write properly formatted lab reports. A calculator is necessary for the mathematical basis of the course.

T329/T330 CHEMISTRY A & B**Credits: 2 each trimester****Grades: 10-12****120 days**

Prerequisite: Grade of 75 or better in Algebra I and II or Instructor/ Curriculum & Instruction Leader permission.

Course Description: The course is designed to provide college bound students with a solid foundation in the fundamentals of chemistry. The course emphasizes the use of the laboratory and classroom activities to see many important concepts of chemistry. Practical application to connect chemistry into everyday life is also emphasized. Although the mathematical applications of these principles are limited, a calculator is required.

T332/T333 HONORS CHEMISTRY II A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Grade of 80 or better in Chemistry; or 70 or better in Honors Chemistry or Instructor/ Curriculum & Instruction Leader permission.

Course Description: This course is designed for the college bound student who is considering a major in science, chemistry or pre-medicine. This second half finishes the major basic areas of study in chemistry including chemical equilibrium, solution chemistry, acid/base chemistry, redox chemistry, kinetics and thermodynamics, nuclear chemistry and introductory organic chemistry.

T335/T336 HONORS PHYSICS A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Grade of 85 or better in Honors Chemistry, Honors Algebra II, Honors Geometry, Honors Functions & Trigonometry or Honors Pre-Calculus or Instructor/ Curriculum & Instruction Leader permission.

Course Description: This course is designed to provide the student with an understanding of physics as a description of the laws which govern the physical world. The topics include kinematics, the study of motion; dynamics, the study of forces; energy, power, momentum, heat, light, sound, and electricity and magnetism. A heavy emphasis is placed on using applied trigonometry, geometry and algebra in problem solving and laboratory experiments. A final project is required.

T338/T339 PHYSICS A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Grade of 75 or better in Biology, Chemistry and Functions & Trigonometry or Pre-Calculus or Instructor/ Curriculum & Instruction Leader permission.

Course Description: This course is designed to provide the student with an understanding of physics as a description of the laws which govern the physical world. The topics include: kinematics, the study of motion; dynamics, the study of forces; energy, power, momentum, heat, light, sound, and electricity and magnetism. This course has a lighter mathematics emphasis than in the honors physics course.

T341/T342 HONORS ANATOMY AND PHYSIOLOGY A & B**Credits: 2 each trimester****Grades: 11-12****120 days**

Prerequisite: Grade of 75 or better in Biology or Instructor/ Curriculum & Instruction Leader permission.

Course Description: This course will review biological/chemical concepts as they relate to human anatomy. It will move from this review to developing the major systems in the human body including biochemistry, anatomical orientation, cells, tissue types, integument, skeletal system and muscular system. A scientific paper based on a laboratory investigation is required. Lab activities explore physiological processes and anatomy of several organ systems. This class is designed for students considering a college life science major or one of the health fields.

T344/T345 HONORS ANATOMY AND PHYSIOLOGY II A & B**Credits: 2 each trimester****Grade: 12****120 days**

Prerequisite: Grade of 75 or better in Biology or Instructor/Curriculum & Instruction Leader permission.

Course Description: This course is a continuation of Anatomy and Physiology I. It is intended for students seriously pursuing a career in medicine, physical therapy or a health related field. The course will continue the study of human systems including: nervous system, circulatory system, digestive system, reproductive system, respiratory system, and urinary system. A PowerPoint Presentation on a topic in physiology is required. Lab activities explore physiological processes and anatomy of several organ systems.

T347 FORENSICS I**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: 75 or better in Biology or Instructor/ Curriculum & Instruction Leader permission.

Course Description: Forensic I is a multidisciplinary course: it is an applied science that encompasses the sciences, technology, mathematics, social studies, and language arts. In recent years, it has become so popular that the public and criminal justice system have been transformed. This course will cover concepts in forensic science, and engage students in thought-provoking cases and scenarios that require them to apply what they have learned and will experience first hand, how forensic science works through collection of data, and critical thinking. The topics covered in the Intro class will include: history, crime scene investigation collection and preservation of evidence. Analysis of: hair, blood, paint and fiber. Fingerprint and tool marks.

T349 FORENSICS II**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: 75 or better in Forensics I or Instructor/ Curriculum & Instruction Leader permission.
Course Description: Students who have taken Intro to Forensic have the opportunity to further their inquiries in this field while discussing the topics on Entomology, Anthropology, Tire impressions, Forensic Psychology, Odontology, Serology, Documentation, Glass & more.

T351 HORTICULTURE**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: Passing grade in Biology.

Course Description: This course is designed for students looking for an alternative to Physics and Chemistry. The course will apply the principles of biology into a practical course for those interested in working in landscaping, greenhouse management or other related horticultural fields. This course is also helpful for those who would like to learn about gardening and home landscaping. The course will cover such topics as plant propagation, plant care management, soil science, entomology, and diseases of trees, shrubs and turf. The course will include hands-on work growing annuals and perennials, pruning trees and shrubs, soil conditioning, and plant propagation. Students are required to participate in outdoor activities and dress appropriately for the weather. This course will provide opportunity for community service.

T353 LANDSCAPE DESIGN**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: Passing grade in Biology.

Course Description: Do you want to be the envy of everyone on the block? This course will teach you about the principles of art design and how they are applied to landscape design. Students will learn about deciduous and evergreen trees and shrubs, perennials, annuals and bulbs, and how they are used in the landscape for both practical purposes and for beauty. Students will learn how to do scaled drawings and will plan their own landscape design.

T355 ENVIRONMENTAL SCIENCE**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: Passing grade in Biology

Course Description: This course deals with the interaction between living organisms and each other, as well as with their physical environment. We also explore the practical application of these concepts: conservation and management of natural resources, endangered species conservation, human impact on the environment and land use planning. Students are expected to demonstrate a grasp the following major concepts: biomes, habitats, communities, population growth and regulation, ecosystem attributes (production, food webs, succession), and biogeochemical cycles. Laboratory and field investigations develop skills in applying the scientific method, and include community service projects to measure the water chemistry of the Blackstone and Mumford Rivers and forest bird populations of the Blackstone River floodplain.

T357 AQUATIC ECOLOGY-ecology of rivers and lakes**Credits: 2 each trimester****Grades: 11-12****60 days**

Prerequisite: Passing grade in Biology or Instructor/Curriculum & Instruction Leader permission.

Course Description: This course will investigate in detail freshwater aquatic ecosystems. It is a hands-on course that allows you to learn in depth about ecology. The course will include the study of watersheds, water chemistry, factors affecting temperature and flow. We will survey the diversity of organisms in freshwater ecosystems, such as the Mumford and Blackstone Rivers. We will study how energy and materials flow through the ecosystem. It includes the biology of freshwater organisms and their adaptations. Activities include: microscopy, water testing, collection of benthic organisms, population studies, dissection of crayfish and fish. We also discuss topics such as pollution and development and the affect it has on aquatic systems. This course will provide opportunity for community service

SOCIAL STUDIES

Grade 9

Honors U.S. History I
U.S. History I

Grade 10

Honors U.S. History II
U.S. History II
Honors World History II*
World War II
World Geography
American Popular Culture
Current Events

Grade 11

AP U.S. History
Honors U.S. History III
U.S. History III
Honors World History II
Law
Honors Psychology
Psychology
Honors International Studies
World War II
World Geography
American Popular Culture
Current Events

Grade 12

AP U.S. History
AP U.S. Government & Politics
Honors U.S. Government
U.S. Government
Honors World History II
Law
Honors Psychology
Psychology
Honors International Studies
World War II
World Geography
American Popular Culture
Current Events

*** Students who are taking AP U.S. History must take Honors World History II in Grade 10.**

SOCIAL STUDIES DEPARTMENT MISSION STATEMENT

“Social Studies educators teach students the content knowledge, intellectual skills and civic values necessary for fulfilling the duties of citizenship in a participatory democracy.”

-National Council for the Social Studies

The UHS Social Studies Department is committed to providing students with the knowledge and skills needed to achieve academic and civic competence. At the high school level students learn to analyze the past, relate it to the present, and recognize implications for the future. The Social Studies Department stresses the importance of critical thinking by providing students with a variety of learning opportunities that involve writing, research, debate, and technology.

T131/T132 HONORS U.S. HISTORY I A & B

Credits: 2 each trimester

Grade: 9

120 days

Prerequisite: Grade of 87 or higher in grade 8 World History I or Teacher Recommendation

Course Description: Exploration through Reconstruction. The content of this course is similar to U.S. History I however more reading and writing assignments are required.

T134/T135 U.S. HISTORY I A & B

Credits: 2 each trimester **Grade: 9** **120 days**

Prerequisite: None

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

T137/T138 HONORS U.S. HISTORY II A & B

Credits: 2 each trimester **Grade: 10** **120 days**

Prerequisite: Grade of 87 or higher in U.S. History I or teacher recommendation.

Course Description: Big Industry through WWII. This course covers the same content as U.S. History II but in greater depth. More reading and writing assignments are required.

T140/T141 U.S. HISTORY II A & B

Credits: 2 each trimester **Grade: 10** **120 days**

Prerequisite: Passing grades in U.S. History I

Course Description: Big Industry through WWII. Students analyze the causes and consequences of the Industrial Revolution and America's growing role in international relations. Students study the goals and accomplishments of the progressive movement and the New Deal. Students also learn about the various factors that led to America's entry into World War I and World War II, as well as the consequences of World War II for American life.

T143/T144 HONORS WORLD HISTORY II A & B

Credits: 2 each trimester **Grade: 10-12** **120 days**

Prerequisite: Required for sophomores who plan to take AP U.S. History.

Grade of 90 Or higher in Honors U.S. History I

Course may also be taken as an elective.

Course Description: Students study the rise of the nation state in Europe, the French Revolution, and the economic and political roots of the modern world. They study the origins and consequences of the Industrial Revolution, 19th century political reform in Western Europe, and Imperialism in Africa, Asia, and South America. They will explain the causes and consequences of the great military and economics events, including World War I, the Great Depression, World War II, the Cold War, and the Russian and Chinese Revolutions. Finally, students will study the rise of nationalism and the continuing persistence of political, ethnic, and religious conflict in many parts of the world.

T146/T147/T148 AP U. S. HISTORY A, B, & C

Credits: 2 each trimester **Grades: 11-12** **180 days**

Prerequisite: Grades of 90 or higher in Honors World History II, Honors Sophomore English, and teacher recommendation.

Course Description: The A.P. United States History course seeks to provide the student with a learning experience equivalent to that obtained in most college introductory U.S. History courses. The course begins with European exploration and settlement of the New World and ends with the United States since 1974. Students will learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. A good deal of emphasis is placed on research and writing skills and preparation for the Advanced Placement Exam, which is administered in May. Students who select this course are expected to take this exam. Estimated cost for the AP U.S. History Exam in \$85.00.

T150/T151 HONORS U.S. HISTORY III A & B

Credits: 2 each trimester **Grade: 11** **120 days**

Prerequisite: Grade of 87 or higher in U.S. History II or teacher recommendation.

Course Description: Cold War to the Present. This course covers the same content as U.S. History III (137) but in greater depth and places greater requirements upon the student. The process of “doing” history will be emphasized.

T153/T154 U.S. HISTORY III A & B

Credits: 2 each trimester **Grade: 11** **120 days**

Prerequisite: Passing grades in U.S. History II

Course Description: Cold War to the Present. Students analyze the causes and consequences of the Cold War and the impact of the Korean and Vietnam conflicts on American society. They examine the politics and economics of the end of the Twentieth Century as well as social and cultural changes. Students are exposed to the role of the United States in the post-Cold War world.

T156/T157 LAW A & B

Credits: 2 each trimester **Grades: 11-12** **120 days**

Prerequisite: None

Course Description: This course covers the basic principles of Law and how they apply to each of use in our everyday life. The following areas will be addressed as time allows: courts and courtroom procedure, juvenile rights and responsibilities, employer and employee rights, contracts, credit cards, checking accounts, criminal law and motor vehicle law. There will be strong emphasis on the case-study method. Field trips and guest speakers will be scheduled.

T159/T160 HONORS PSYCHOLOGY A & B

Credits: 2 each trimester **Grades: 11-12** **120 days**

Prerequisite: Grade of 87 or higher in grade 10 or 11 Social Studies courses, or teacher recommendation.

Course Description: Honors Psychology is a course with content similar to the college level psychology course. The major difference between the two courses is in the amount of work required in and outside the classroom. Honors Psychology students will be responsible for research papers, primary source readings and oral presentations. Students enrolled in Honors Psychology must be able to work more independently in their pursuit of information. Topics to be covered include Personality Theory, Learning, Abnormal Psychology, Memory and Thought, and Developmental Psychology. Honors Psychology is suggested for motivated students interested in the area of study.

T162 PSYCHOLOGY

Credits: 2 each trimester **Grades: 11-12** **60 days**

Prerequisite: None

Course Description: Psychology on the high school level is offered as an introductory course to a subject often studied in college. Some of the topics stressed are personality, learning, memory, mental health and mental illness. Students are introduced to the methods and terminology used by psychologists. Students will gain an understanding of the various psychological schools of thoughts and the controversies which surround them. The vitality of psychology as an ever developing study is stressed. Class involvement and classroom demonstrations are major components of this course. Students will gain a perspective of the development of psychology and knowledge of the great contributions of renowned psychologists and landmark experiments in psychology.

T164/T165/T166 AP U.S. GOVERNMENT & POLITICS A, B, & C

Credits: 2 each trimester **Grade: 12** **180 days**

Prerequisite: Grade of 90 or higher in Honors U.S. History II, or 85 in AP U.S. History and 90 in Honors Junior English.

Course Description: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. While there is no single approach that an AP Government & Politics: United States course must follow, certain topics are generally covered in college courses:

- Constitutional underpinnings of United States Government
- Political beliefs and behaviors
- Political parties, interest groups, and mass media
- Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal Courts
- Public Policy
- Civil Rights and Civil Liberties

T168/T169 HONORS U.S. GOVERNMENT A & B

Credits: 2 each trimester **Grade: 12** **120 days**

Prerequisite: Grade of 87 or higher in U.S. History II, or teacher recommendation

Course Description: Honors Government is a one-semester course, which examines the political processes and institutions of the United States. Emphasis is placed upon understanding the basic values of American politics. The major themes of the course are Introduction to Government, The Constitution, Federalism, Civil Liberties, Civil Rights, Interest Groups and Public Policy and Comparative Government. The course is designed to give students a critical perspective on government and politics. Much emphasis is placed on analysis and interpretation of subject matter through writing. Honors Government is suggested for motivated students interested in this area of study.

T171/T172 U.S. GOVERNMENT A & B

Credits: 2 each trimester **Grade: 12** **120 days**

Prerequisite: None

Course Description: This course is a study of American government designed to develop in the student an understanding of the importance of the Declaration of Independence and the United States Constitution, by stressing individual freedoms, civil liberties, and the constitutional rights of all citizens. This course also endeavors to examine the philosophic foundations of government.

T174/T175 HONORS INTERNATIONAL STUDIES A & B

Credits: 2 each trimester **Grades: 11-12** **120 days**

Prerequisite: Grade of 85 or higher in Grade 10 or 11 Social Studies courses, or teacher recommendation

Course Description: The global political and economic arena has changed markedly over the last few decades. This course is designed to provide the student with an introduction to the study of International Relations, and hopefully, an understanding of the major factors behind these changes. It focuses primarily upon concepts and perspectives which one may employ in understanding and describing the behavior of nations including the two basic principles of International Relations: national interest and institutional structure. Students are required to participate in a Model UN conference.

T177/T178 World War II A & B

Credits: 2 each trimester

Grades: 10-12

120 days

Prerequisite: None

Course Description: This course will examine the causes, events, and consequences of World War II using a global perspective approach. Students will study the major diplomatic, political, social and military objectives of the nations involved. Emphasis will be placed on primary source readings, lectures, films, and projects.

T180 World Geography

Credits: 2 each trimester

Grades: 10-12

60 days

Prerequisite: None

Course description: This course is a study of people, places and environment from a physical and cultural perspective. Through a variety of classroom activities, students will gain an appreciation and understanding of the interdependent world in which they live. Students will analyze and evaluate the connection between their local and global communities. The course will emphasize the practical and responsible application of geography to life situations.

T182 American Popular Culture in the Twentieth Century

Credits: 2 each trimester

Grades: 10-12

60 days

Prerequisite: None

Course Description: This course will explore the origins and cultural meanings of American popular culture in the 20th century. By studying theater, film, music, fashion, television, advertising, and other aspects of our culture students will gain a broader understanding of American History. We will pay close attention to how popular culture embodies ideas about gender, race, class and nation in the twentieth century. Students will be expected to complete projects on various aspects of popular culture that appeal to their personal interest areas.

T184 Current Events

Credits: 2 each trimester

Grades: 10-12

60 days

Prerequisite: None

Course Description: The Current Events course is designed to acquaint students with a wide range of current worldwide and national issues. Important current events in the news will be traced to their historical roots. This course is designed to assist students in becoming more informed citizens and to give them the historical background of events necessary to better understand current situations. Students become familiar with important people, places and events in the news and are able to hold opinions based on facts and deeper understandings.

T600 INTRODUCTION TO CONSTRUCTION**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: None*

Course Description: This course will focus on the basic safe use of hand tools, power tools and shop machines necessary to construct a variety of construction projects. Students will explore a variety of career / construction trades through hands on project based learning. Students' projects will take place in and around the school grounds. These projects may also reach beyond the classroom and into the other schools. On a fundamental level students will be applying many aspects of the construction industry which includes the following: Design, Construction, Carpentry, Electrical, Plumbing and Painting.

T602 ADVANCED CONSTRUCTION**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: 70 or better in Introduction to Construction or C&I Leader approval.*

Course Description: This course will review the basic safe use of hand tools, power tools and shop machines necessary to construct a variety of construction projects. Students will explore a variety of career / construction trades through hands on project based learning. Students' projects will take place in and around the school grounds. These projects may also reach beyond the classroom and into the other schools. The projects will also incorporate more advanced methods and techniques used in the construction field. On a fundamental level students will be applying many aspects of the construction industry which includes the following: Design, Construction, Carpentry, Electrical, Plumbing and Painting.

T604 INTRODUCTION TO WOOD MANUFACTURING TECHNOLOGY**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: None*

Course Description: Wood Technology introduces the student to the woodworking industry. Students will learn the manufacturing process using wood with hand and power tools. The emphasis will be on machine operations. The course includes basic project design, sources, uses and limitations of modern wood products, construction techniques, machining, and finishing. Student projects are required and will include individual and team activities. A fee may be required for purchase of materials.

T606 ADVANCED WOOD MANUFACTURING TECHNOLOGIES**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: 70 or better in Introduction to Wood Manufacturing or C&I Leader approval.*

Course Description: Advanced Wood Technology builds on what the students learned in Intro to Wood Manufacturing. Students will learn more advanced manufacturing process using wood with hand and power tools. The emphasis will be on machine operations, quality of finished project, and project complexity. The course includes furniture design, sources, uses and limitations of modern wood products, advanced construction techniques, machining, and finishing. Student projects are required and will include individual and team activities. A fee may be required for purchase of materials.

T608 INTRODUCTION TO AUTOCAD INVENTOR**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: None*

Course Description: This course is designed to introduce students to the purpose and functions of the AutoCAD Inventor Program. Students will be taught the basics of general drafting from orthographic and isometric drawings, drafting standards, and utilization of AutoCAD commands. Students will use this parametric modeling program to create and design shapes from basic forms to complex machine parts. Students will be required to use all of the given information and tools to complete a furniture design project by the end of the class.

T620 ROBOTICS**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: The course is designed to be a hands-on course for a variety of students that have interests in Technology Engineering, and the application of physics, but may not have any experience with robotics. The course will be designed to meet diverse standards in both Physics and Technology, but will focus on engaging students in challenging and thoughtful hands-on activities related to robotics. Students will learn to build and program robots to perform a task or to face a challenge. The curriculum includes learning about parts, simple electronic systems, fluid systems, and transmission systems, systems and programming of robots; uses of robots in industry and effects on society; the science and machines; and mathematical concepts of machines. The course is designed for juniors and seniors, as an extension to Introductory Physics and Technology. The activities will promote design engineering and problem solving.

T622 ELECTRICAL ENERGY/ELECTRONICS**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: 75 or better in Algebra I*

Course Description: Electrical Energy is designed to teach students, with no prior electronics knowledge, the necessary electrical principles to understand electronics, both DC and AC, and the application of these principles in electronic circuits. The concepts are reinforced with numerous hands-on experiments. Topics covered include current, voltage, resistance, Ohm's Law, magnetism, electrical measurements, DC circuits, inductance and capacitance, use of multi-meter, AC theory, AC measurements, and use of oscilloscope. Electronics is a continuation of the Electrical Energy course with a more in-depth study of DC theory and applications of typical AC/DC circuits.

T624 PRE-ENGINEERING**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: 70 or better in Algebra I or C&I Leader approval.*

Course Description: This course is designed to introduce students to the Engineering and Design program with using the SolidWorks parametric modeling program. Students will learn to navigate become accustomed to the basic program commands of the basic operations. The students will also learn the process and steps involved with the engineering and design model. Along the way the students will be required to design and fabricate a given problem. Students will use the SolidWorks program to draw any parts and assemblies that will be needed in the fabrication process along the way. This program will prepare students for entrance to an engineering or design college program. They will also be allowed to begin to develop a college entrance design portfolio or add to an existing portfolio.

T626 COMPUTER APPLICATIONS**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: None*

Course Description: Computer Applications I is an introductory course designed to provide the students with a basic understanding of computer hardware, software, file management, virus protection internet, network, and internet technology. In addition students will learn how to gather and present data in different formats through the use of word processing, spreadsheet, presentation and database software. Based on individual students keyboarding skills will determine whether the student will focus on proper keyboarding techniques or focus on increasing speed and accuracy.

*****At the time of printing, this course is being articulated with Quinsigamond Community College. We anticipate an agreement being reached during the 2008-09 academic year. This agreement allows students to receive college credit from Quinsigamond after successfully completing the course with a grade of 80 or higher.**

VISUAL ARTS

Art I A	Grades 9-12
Art I B	Grades 9-12
Art II A	Grades 9-12
Art II B	Grades 9-12
Art III A	Grades 10-12
Art III B	Grades 10-12
Ceramics I A	Grades 10-12
Ceramics I B	Grades 10-12
Self Expression	Grades 9-12
Portfolio	Grades 11-12
Explore and Discover	Grades 10-12

VISUAL ART DEPARTMENT MISSION STATEMENT

Our art program uses a multi-disciplinary approach and a traditional studio-based curriculum to establish the foundation for lifelong learning in the arts. Students will learn perceptual, critical thinking and problem solving skills to develop their abilities to think creatively. The art program is a sequential course of studies that includes the use of tools and techniques, understanding elements and principles of design, developing craftsmanship, gaining an awareness of art history, and the effective use of technology. The variety of class projects allows students the opportunity to create artworks, to write effectively about the arts, and to synthesize and apply new information. Artistic and creative expression will be fostered in a safe environment where students develop respect for themselves and others. Assessment strategies are designed to demonstrate what students know and can do; these include tests, quizzes, exhibits, critiques, oral presentations and portfolios, as well as graded projects.

T700 **ART I A**

Credits: 2 each trimester

Grades: 9-12

60 days

Prerequisite: None

Course Description: This foundation course teaches you how to draw realistically through a variety of methods. *ArtTalk* and *Drawing on the Right Side of the Brain* are our textbooks. In this class students will be introduced to basic drawing techniques and an exploration of various art media. Units of study will include the elements and principles of design. Class projects will enable the student to develop perceptual skills. In addition to the production of artwork, students will also learn about aesthetics, criticism and the history of art. *Scholastic Art* magazines and the textbook *Discovering Art History* will also be used to enhance class discussions. Quizzes and tests will be required, as well as written assessments of studio projects.

T702 **ART I B**

Credits: 2 each trimester

Grades: 9-12

60 days

Prerequisite: Grade of 70 or higher in Art IA and/or teacher approval.

Course Description: This course is a continuation of Art IA. *ArtTalk*, *Drawing on the Right Side of the Brain* and *Discovering Art History* are the textbooks that will be utilized in this class. Students will continue to learn basic drawing techniques and will participate in an exploration of various art media. Units of study will include the elements and principles of design. In addition to the production of artwork, students will also learn about aesthetics, criticism and the history of art. *Scholastic Art* magazines will be used to enhance class discussions. Quizzes and tests will be required, as well as written assessments of studio projects.

T704 **ART II A****Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: Grade of 70 or higher in Art IB and/or teacher approval.*

Course Description: This course begins with an intensive drawing review in order to reawaken the processes of visual judgment. The Art II curriculum builds on skills acquired in the Art I classes and students will complete projects focusing on design elements and principles. A variety of media will be explored, and units of study will include drawing, painting and sculpture. Assignments are often related to the work of specific artists. *ArtTalk*, *Drawing on the Right Side of the Brain* and *Discovering Art History* are the textbooks that will be utilized in this class. *Scholastic Art* magazines will also be used to enhance class discussions. Quizzes/tests will be required, as well as written assessments of studio projects and an Art History research project.

T706 **ART II B****Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: Grade of 70 or higher in Art IIA and/or teacher approval.*

Course Description: The Art IIB curriculum builds on skills acquired in Art IIA. Students will continue to complete projects focusing on design elements and principles. Assignments are often related to the work of specific artists. Units of study will include figure drawing and portraiture, as well as painting, printmaking, sculpture and ceramics. *ArtTalk*, *Drawing on the Right Side of the Brain* and *Discovering Art History* are the textbooks that will be utilized in this class. *Scholastic Art* magazines will also be used to enhance class discussions. Quizzes/tests will be required, as well as written assessments of studio projects and an Art History research project.

T708 **ART III A****Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: Grade of 70 or higher in Art IIB and/or teacher approval.*

Course Description: Art III is comprised of a combination of class problems and independent work aimed at in-depth development of personal imagery and style, along with advanced skill mastery in a given medium. Contracts for individual studies are prepared by the student and must be approved in advance by the instructor. The semester will begin with an intensive drawing review. Class projects may include contour and gesture drawing, portraiture, color composition, watercolor series, oil and acrylic painting, ceramics, printmaking and advanced three-dimensional work. Quizzes/tests will be required, as well as written assessments of studio projects and an Art History research project. Students will be responsible for setting realistic goals and deadlines with regard to their art production. We will also discuss various career opportunities in the arts.

T710 **ART III B****Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: Grade of 70 or higher in Art IIIA and/or teacher approval.*

Course Description: The Art IIIB curriculum builds on skills acquired in Art IIIA. Students will continue to work toward the development of personal artistic style. Contracts for individual studies are prepared by the student and must be approved in advance by the instructor. In addition to working on class projects assigned by the instructor, students will focus on developing mastery in a medium of their choice. Quizzes/tests will be required, as well as written assessments of studio projects and an Art History research project. Students will be responsible for setting realistic goals and deadlines with regard to their art production. We will also discuss various career opportunities in the arts.

T712 CERAMICS I A**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: This course is designed to provide the student with a basic working knowledge of the physical and chemical properties of clay. Students will focus on the production, history, criticism and aesthetics of ceramics. They will have the option to produce both hand-built and wheel-thrown items, and will explore a variety of decorative techniques. Class discussions will include the glazing and firing process, how to load and fire an electric kiln, and the costs involved in maintaining a ceramic studio. This is a “hands-on” course requiring daily participation. Therefore, regular attendance is necessary, as well as class participation in readings and discussions; these are crucial factors for success in this course.

T714 CERAMICS I B**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: Grade of 70 or higher in Ceramics IA and/or teacher approval.*

Course Description: The Ceramics IB curriculum builds on skills acquired in Ceramics IA. Students will continue to develop their knowledge and skills of the ceramic process. They will have the option to produce both hand-built and wheel-thrown items, and will explore a variety of decorative techniques. Assignments are often related to the work of specific artists or cultures. This is a “hands-on” course requiring daily participation. Therefore, regular attendance is necessary, as well as class participation in readings and discussions; these are crucial factors for success in this course.

T716 SELF EXPRESSION**Credits: 2 each trimester****Grades: 9-12****60 days***Prerequisite: None*

Course Description: The primary focus of this course is to examine art forms through students' personal experiences. Art will serve as a means of communicating ideas and expressing emotions. Following an introductory unit on drawing techniques, students are required to keep journals with writing and sketching as an ongoing process. Projects often emerge through self-examination using a variety of approaches and may include autobiographical writing, self portraiture, collages, identity box, mask making, researching a family tree, and illustrating a favorite quote. A variety of art media will be explored.

T718 PORTFOLIO**Credits: 2 each trimester****Grades: 11-12****60days***Prerequisite: Grade of 80 or higher in Art IIIB and/or teacher approval.*

Course Description: This course is designed for students who are seriously working on a portfolio to prepare them for advanced art programs. Each student must produce a specific number of artworks to be included in the portfolio. Students must prepare a written proposal for each independent project. Students learn how to photograph art work and cut mats. Each student is responsible for submitting a copy of his/her portfolio to the instructor by the end of the semester. An exhibition of the student's artworks may also be arranged.

T720 EXPLORE & DISCOVER**Credits: 2 each trimester****Grades: 10-12****60 days***Prerequisite: None*

Course Description: This interdisciplinary, “hands-on” course prepares students for leadership roles in the Explore and Discover program through community service learning opportunities. Students will develop problem solving, research, communication and construction skills as they learn to serve as “Explorers” (student guides) for the E&D Museum. Math, science and other concepts are applied as students design and construct interactive exhibits, as well as plan and present workshops for classrooms throughout the school district. The students' involvement in the River Classroom will lead to an awareness of the need for careful stewardship of our valley resources. An important component of the program is self-evaluation. The students are expected to maintain a journal of written reflection and assignments.