

Coginchaug Regional High School

Durham/Middlefield, Connecticut

SCHOOL YEAR
2010-2011

PROGRAM OF STUDIES 2010-2011



WORLD LANGUAGES BUSINESS LAW HEALTH
BIOLOGY PRINTMAKING CREATIVE WRITING
TEXTILES ROBOTICS EUROPEAN
JAZZ ENSEMBLE PRECALCULUS STUDIES
GLOBAL STUDIES VOLLEYBALL CHOIR

Dear Students:

The Program of Studies is designed to help you plan your high school years. A wealth of information that is helpful in establishing a path for your high school career is contained in this booklet. You will find course offerings, suggestions regarding sequencing, and graduation requirements, as well as information about other school-related topics.

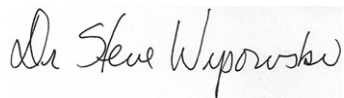
We ask that you and your parents review this booklet and keep it as a reference guide for future use. It can answer many questions that you have regarding course selection as well as expectations for graduation and post-secondary requirements.

Co-curricular, as well as extra curricular, activities that can further enrich your experience at Coginchaug are listed. We find that students who have a connection to the school beyond academics actually perform better in the classroom than students who are not as connected.

Do not hesitate to talk to teachers, department leaders, and guidance counselors when you encounter issues that you do not have an answer for or need clarification. We administrators also remain available whenever appropriate to assist and support you with your questions or issues.

As always, this booklet and our services are offered to help you become more successful while you are with us at Coginchaug.

Sincerely,



Dr. Steve Wysowski

COURSE SELECTION

The CRHS Program of Studies includes descriptions of all courses offered during the 2010-2011 school year. As you consider what courses to select, be sure to think carefully about graduation requirements, college and vocational plans, as well as your own needs, interests, and abilities. (Student-athletes should look at the NCAA requirements for admission to colleges when planning their programs.) Please discuss your choices with your parents before you finalize them. Keep in mind that all students must be registered for at least 7 credits and must include Physical Education (PE) among these credits.

All the requirements for graduation are detailed in this Program of Studies. If you need help understanding these requirements or any other aspect of your registration, please contact your guidance counselor or the appropriate faculty member. We are here to help you!

Program of Studies

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COGINCHAUG REGIONAL HIGH SCHOOL

www.rsd13ct.org/schools/crhs/

860-349-7215

135 Pickett Lane

Durham, Connecticut 06422

SCHOOL ADMINISTRATORS

Dr. Steve Wysowski, *Principal*

André Hauser, *Assistant Principal*

COUNSELING SERVICES

www.rsd13ct.org/schools/crhs/crhsguid/

860-349-7221

Beth Galligan, *Director of Guidance*

Beth Melillo, *Counselor*

Lynn Schofield, *Counselor*

Stacy DellaCamera, *School Psychologist*

Sandra Potak, *School Psychologist*

Kathy Bottini, *Social Worker*

Kathleen Davidson, *Speech Pathologist*

Suzanne Mediavilla, *Secretary*

TEAM LEADERS

Tara Amatrudo, *Special Education, Music*

Candy Brickley, *Health, Physical Education, Family & Consumer Sciences, Business Education, Technology Education, Visual Art & Design*

Susan Michael, *Science*

Kris Nystrom, *English*

Julie Selberg, *History & Social Studies*

Mary Sersanti, *World Languages*

Kathy Zygmunt, *Mathematics, Computer Science*

STUDENT ATHLETICS

Ted Lombardo, *Director of Athletics*

Jeannie Boothroyd, *Secretary*

MISSION STATEMENT

The mission of Coginchaug Regional High School is to ensure that each student graduates prepared to successfully meet the demands and challenges of a constantly changing world by committing to high academic standards and meaningful, innovative learning opportunities in a supportive safe environment that promotes collaboration, self-reliance, ethical behavior and civic engagement.

ACCREDITATION STATEMENT

Coginchaug Regional High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purpose through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association:

Commission on Public Schools

New England Association of Schools and Colleges
209 Burlington Road
Bedford, Massachusetts 01730-1433
1-781-271-0022

GRADUATION REQUIREMENTS

In order to graduate from Coginchaug Regional High School, students must fulfill the following requirements:

1. Twenty-six (26) credits must be earned.
2. Distribution of Credits Credits
 - a. English (4 years) 4
 - b. Social Studies, including one year of U.S. History and .5 credit of American Citizenship 3.5
 - c. Science, including one year of biology 3
 - d. Mathematics 3
 - e. Physical Education (4 years, unless medically excused) 2
 - f. Health 9, 10, 11, 12 1
 - g. Fine Arts/Vocational Arts 1
 - h. Other courses of choice to reach requirements for graduation
3. Promotion Credits needed
 - to become a sophomore 5.5
 - to become a junior 12
 - to become a senior 19 or a planned program to meet graduation requirements

Students must take .25 credit per year of physical education and .25 credit per year of health education. Aside from the required .25 credit per year of physical education, students must earn at least one (1) additional credit in physical education in order to meet graduation requirements. The additional one (1) credit may be earned by taking physical education elective courses and/or by participation on an athletic team for one season. No student may apply more than two (2) credits of physical education towards graduation. Students may be exempted from the P.E. requirements (credits) for medical reasons, but must still earn 26 credits (or the designated number under the phase-in process) in order to graduate.

Able students may be permitted to take a heavier than normal load of courses so that they may complete the regular high school program in less than four year's time. Students desiring an accelerated program will be required to submit a request for approval to the principal prior to the end of the sophomore year. Special education students must fulfill the credit requirements for graduation at a level determined by their Individualized Education Program.

CONNECTICUT ACADEMIC PERFORMANCE TEST (CAPT)

The Connecticut Academic Performance Test is a series of tests, mandated by the state and administered during the month of March, that assesses students' abilities in math, language arts, and science, as well as on selected interdisciplinary topics. These tests are given to sophomores and any junior or senior who desires to retake one or more of the tests on which they have not yet met the state goal.

ASSIGNMENT OF CREDITS

Report cards are distributed and Honor Roll is computed at the end of each quarter. Grade Point Average (GPA) is computed at the end of each quarter. Students receive letter grades, a "D-" being the minimum required to earn credit.

GRADING POLICIES

Grades are computed numerically and then assigned the appropriate letter grade. Failure forms (attached to the Grade Report) report the exact numerical grade.

A+	= 97-100	B+	= 87-89	C+	= 77-79	D+	= 67-69
A	= 93-96	B	= 83-86	C	= 73-76	D	= 63-66
A-	= 90-92	B-	= 80-82	C-	= 70-72	D-	= 60-62
						F	= 0-59

COLLEGE REQUIREMENTS

Requirements for colleges vary. It is the responsibility of the student to consult college catalogues for specific entrance requirements. These materials are available in the Guidance Office. Please consult with counselors for more information.

The minimum suggested academic requirements are:

- 4 credits in English
- 3 to 4 credits in mathematics (including Algebra 1, Geometry and Algebra 2)
- 2 to 4 credits in world language (intensive study in one world language is preferred)
- 3.5 to 4 credits in social studies
- 3 to 4 credits in laboratory sciences
- Electives from the above academic areas or other departments' offerings to meet individual needs.

Nursing schools, engineering schools, and technical schools will expect a student to emphasize courses in the areas of mathematics and sciences.

Grade Point Average (GPA) is computed by translating letter grades to numerical grades. GPA is based on grades in all courses taken except Chamber Choir, Physical Education, Show Choir, and Jazz Ensemble. GPA is computed for all students at the end of each semester. This GPA is used primarily on transcripts for college admission and for certain senior awards. A student's GPA is cumulative.

College admissions officers are looking for evidence of academic maturation, a challenging selection of courses, personal growth and development, and participation in extracurricular activities. Seniors should carry a full academic program consistent with their future plans.

NCAA STUDENT ATHLETE ELIGIBILITY REQUIREMENTS

Upon entering grade 9, a student becomes a prospective student-athlete who should become aware of and adhere to the NCAA regulations and guidelines. Students and parents are encouraged to visit the NCAA website at www.ncaaclearinghouse.net and click on the section Prospective Student Athletes link. This link provides a wealth of information about the core 14 course requirements and the new core GPA/Test Score Index. The comprehensive NCAA Guide for the College-Bound Student Athlete can be downloaded directly from the site. Students are also encouraged to speak to their guidance counselor on a regular basis regarding their intentions.

The CRHS graduate demonstrates literacy:

Reads critically for a variety of purposes

Demonstrated by: Meets or exceeds Level 3 on Reading Across the Disciplines portion of CAPT
OR ...An alternative assessment by the English department

The CRHS graduate demonstrates numeracy:

Computes and estimates mathematically

Demonstrated by: Meets or exceeds Level 3 on Mathematics portion of CAPT
OR ...An alternative assessment by the mathematics department

The CRHS graduate demonstrates scientific literacy:

Generates testable hypotheses, designs experiments to test hypotheses, draws conclusions based on experimental data, analyzes conclusions based on existing knowledge or experimental parameters

Demonstrated by: Meets or exceeds Level 3 on Science portion of CAPT
OR ...An alternative assessment by the science department

The CRHS graduate demonstrates communication skills:

Communicates effectively both orally and in writing

Demonstrated by: Meets or exceeds Level 3 on Writing Across the Disciplines portion of CAPT
OR ...An alternative assessment by the English and/or social studies departments

The CRHS graduate demonstrates technological literacy:

Accesses and processes information responsibly, legally, and ethically across content areas and from a variety of sources and technologies

Demonstrated by proficiency (3 or better in all benchmarks) on three significant assignments representing three separate disciplines.

The CRHS graduate demonstrates lifelong learning habits:

Produces quality work

Demonstrated by proficiency (3 or better in all benchmarks) on three significant assignments representing three separate disciplines.

Collaborates and cooperates

Demonstrated by proficiency (3 or better in all benchmarks) on three significant assignments representing three separate disciplines.

Knows how to achieve and maintain a healthy lifestyle and level of fitness

Demonstrated by meeting proficiency on three of the four tests on the State physical fitness assessment AND by achieving a passing score on a health assessment administered to all sophomores.

The Department of Counseling Services offers programs and services to enable and encourage each student to achieve his or her academic potential and to serve the student's needs as a whole person. The Department strives to help each student develop self-respect and a positive self-image. The curriculum includes structured experiences in classes to facilitate human development (self-awareness, interpersonal skills, school success skills, and career goal setting). Counselor responsibilities encompass the organization and implementation of classroom guidance, group guidance, teacher advisement, and student programs.

INDIVIDUAL PLANNING

The individual student planning component ensures that each student identifies career, education and personal goals, selects appropriate courses, is knowledgeable about postsecondary options, and understands the steps that are necessary to implement an action plan for success.

RESPONSIVE SERVICES

The responsive services of the school counseling program ensure appropriate and timely responses to academic, career and personal/social concerns. Intervention services are delivered through individual and/or group counseling. Prevention and intervention services are delivered in collaboration with teachers, administrators and student services staff. School counselors use the consultation process to share and exchange information to help students succeed in their academic, career, and personal/social development, and they consult with other school-based specialists and/or community services to identify and use services for students in need.

PROGRAM MANAGEMENT ACTIVITIES

. . . establish, maintain, and enhance the preceding guidance and counseling components. Techniques include curriculum development, parent and community communications, and orientation to outside agencies (colleges and community service organizations).

PERSONAL CONCERNS

This program provides the opportunity for students to discuss problems and stresses of school and personal life with their peers in a structured and professionally supervised setting.

COLLEGE & CAREER PLANNING

The purpose of these meetings is to help students clarify their future educational goals and give them help in beginning the process of selecting and applying to colleges.

CAREER PLANNING

Career Planning groups help students think about themselves and their interests, abilities, and skills. Students use various sources of information, including career interest inventories, to explore possible career fields. A computer program, Naviance, is used in college and career planning. Its website can be accessed through: <http://connection.naviance.com/coginchaug>

INDIVIDUAL OPPORTUNITIES

There are a number of programs at Coginchaug that take into account the special interests and requirements of a wide range of students. See your counselor for more details on any of these options.

Advanced Placement Courses

Pending enrollment, CRHS offers the following Advanced Placement (AP) courses: AP U.S. History (junior year), AP Biology (senior year only), AP Calculus (senior year only), AP U.S. & Comparative Government (senior year only), and UConn/AP English (senior year only). These courses provide an opportunity for the extraordinary student to do college-level work while in high school. For the capable student, Advanced Placement courses furnish a chance to pursue a stimulating and challenging course of study. Additionally, they enhance a student's chances for obtaining admission to more competitive colleges and universities. AP courses are weighted 1.5 credits with the exception of UConn English which is weighted 1 credit.

It should be clearly understood by both prospective students and their parents, that an AP course is a college-level course. An AP course is not just an advanced course, taught at a slightly higher level, but is truly a college-level course requiring independent work ethic, commitment to understanding (not just rote memory), and a willingness to ask questions and actively participate in class discussions.

Advanced Placement courses culminate in an Educational Testing Services (ETS) College Board Advanced Placement Examination in May. Students enrolled in these courses are required to take an AP exam in the AP course in which they are enrolled. The cost of the AP exams is the financial responsibility of the student and/or his/her parents. In some cases, financial aid to help defray the cost of an AP exam(s) is available through the College Board. AP exams are scored from one to five (five being the highest attainable score). College policies vary on how Advanced Placement courses are treated. It is possible that (dependent on the AP exam score) freshman college courses may be waived, with credit given or not, and the student allowed to pursue sophomore level courses.

Students must be recommended by their teacher to enroll in Advanced Placement courses. Students should consult their English, social studies, science, or mathematics teachers for more information. Please refer to the individual departments for specific AP course prerequisites and descriptions.

College Career Pathways Program (CCP Program)

The CCP Program is a partnership between Middlesex Community College (MxCC) and Coginchaug Regional High School designed to allow high school students an opportunity to pursue college-level courses for which they will receive full college credit at MxCC.

College credit may be earned in the following courses: Accounting I, Algebra II, Child Development, Introduction to Business, Advanced Television Production, College Keyboarding, and CAD II. Students with at least junior standing with an overall average of C or better may complete the CCP Program Application. Applications are distributed and must be completely filled out and must be signed by parent/guardian and

submitted to the high school coordinator, Mr. Gaechter, for review and acceptance. A high school student may earn a maximum of 15 college credits for high school classes and, while participating in the CCP Program, the classes are free of charge. High school credit is also assigned.

Middlesex Community College - High School Partnership Program

Students with at least junior standing, an 80 scholastic average, and in the top 20% of their class, may, with principal's/counselor's recommendations, enroll in one college credit course each semester. These may be taken days or evenings on a space available basis.

Quest (Independent Study)

Quest is a program in which students, with the assistance of faculty and community resource people, can earn .25 credit by pursuing an independent study project. The program is open to students of all grade levels and is designed to accommodate students who truly wish to pursue a topic not offered in the Coginchaug program of studies or who wish to concentrate on a particular aspect of one of their regular courses. Students may be recommended by teachers or themselves. Information is available from the Guidance Office.

Special Education Program

Students who, for a variety of reasons, may need more individualized help in pursuing their high school program are able to receive support in the Special Education Resource Room. Placement in this program is by decision of the building Planning and Placement Team (PPT). The Resource Room provides a wide variety of support services for students with special needs. These include individual student support, resource classes if determined by PPT, and team-taught classes.

Individual Student Support

Developmental Skills is a course designed to provide academic support and resources for students who have an Individualized Education Plan (IEP). Students work with their resource teacher to develop and strengthen their skills as outlined by their IEP objectives. In addition, students will learn strategies and skills which will address such areas as self-advocacy and transition to living and working independently. Students may be placed in more than one section of Developmental Skills depending on individual student needs. Students may earn .5 credits per semester.

Team-Taught Classes

The team-taught classes are jointly taught by general and special educators to academically and behaviorally support heterogeneously grouped students. This integrated setting allows teachers to use their specialized skills to most effectively meet the needs of students. Team-taught classes are available in English, mathematics, science, and social studies.

Summer School

Students who fail a course or lose credit through the Attendance Policy are urged to make up the work at summer school if eligible. Summer school courses are offered through the Middletown school system; however, other school systems' summer school courses may qualify for credit. Students must check with their counselor prior to enrolling in any summer school course and receive approval from administration. One half of the quarters in a failed course must have been passed to qualify for this option. A final exam from Coginchaug may be required to earn credit.

Tutoring Opportunities

Students who wish to contribute their time in a valuable helping experience are encouraged to volunteer for tutoring assignments, either in the high school or in elementary or middle school classrooms. Arrangements can be made through the Guidance Office.

University of Connecticut Early College Experience Course

A college-level course in English is offered to qualified seniors. College credits may be earned, and high school credit is also assigned. See English Department course description for further explanation.

Wesleyan University High School Scholars Program

Seniors with strong academic backgrounds may apply to Wesleyan to take freshman-level courses there. Additional information and application forms are available in the Guidance Office.

WISE (Wise Individualized Senior Experience)

Credit .5

Prereq: None, but students must not depend on this project to complete graduation requirements

This course is designed to give seniors an opportunity to study a topic of special personal interest. During their senior year, students conduct research related to their topic, making a final formal presentation to an audience consisting of school and community members. Applications and interviews are required. If accepted into the program, WISE seniors explore their topic and prepare for their presentations under the guidance of a mentor of their choosing. Due to the independent nature of WISE, students are expected to commit to the course and will be subject to the same guidelines for withdrawal as any other semester course. Refer to the Student Handbook for specific information. (Note: WISE runs during quarters 2 and 3.)

BUSINESS EDUCATION

Grade	Communication & Technology	Business Administration	Finance
9	Basic Keyboarding College Keyboarding Microsoft Office	Introduction to Business Sports Marketing Business Law	Applied Economics
10	Basic Keyboarding College Keyboarding Microsoft Office	Introduction to Business Sports Marketing Business Law	Accounting I Business Math Applied Economics
11	Basic Keyboarding College Keyboarding Microsoft Office	Introduction to Business Sports Marketing Business Law	Personal Finance I Accounting I Accounting II Business Math Applied Economics
12	Basic Keyboarding College Keyboarding Microsoft Office	Introduction to Business Sports Marketing Business Law	Personal Finance I Accounting I Accounting II Accounting III Business Math Applied Economics

- Business Education provides a significant contribution to the education of all students in a business-oriented world.
- Emphasis is placed on enabling students to become productive and contributing members of society who are adaptable to change and capable of economic self-sufficiency and lifelong learning.
- Courses in the Business Department prepare students for jobs in the business world, serve as an introduction to pre-professional college courses, and/or provide students with skills for personal use.
- Students meeting the agreed upon criteria can receive college credit through the College Career Pathways program. **Accounting I, College Keyboarding, Introduction to Business,** and **Microsoft Office** have been identified as articulated courses in this program.

COURSE OFFERINGS

621 Business Mathematics

Credit 1

Prereq: 1 yr of Math

This course gives students competence in basic mathematical skills so that they can be applied to day-to-day living and to many business occupations. This course progresses to the study of important business and consumer related topics such as investments, taxes (income, property, sales, excise), wages, budgeting, home ownership, sales, and loan credit. Business Mathematics may be used to satisfy part of the mathematics requirement for graduation.

631 Sports Marketing

Credit .5

Prereq: None

Students will gain experience in many aspects of marketing through the study and application of the sports and entertainment industries. This course covers the basic functions of marketing as outlined in national and state standards. Through the development of marketing portfolios, students will learn the basics of the marketing mix, including pricing, promotion, distribution, market research and information management.

632 Business Law

Credit .5

Prereq: None

This course develops an understanding of the function and purpose of business and personal law in a democratic society, including a respect for the rights of others and good habits of justice, honesty, and equity. Particular emphasis is placed on the study of contracts. Students will develop an understanding of personal rights and personal obligations in business structures.

633 Applied Economics

Credit .5

Prereq: None

Economics is the science of making choices. Students will learn the basic tool kit of economic concepts to enable them to make better choices in the market place and voting booth, thus becoming better consumers and citizens. Topics such as supply and demand are introduced as tools of analysis. The goal is to enable students to use these concepts in their everyday decision-making process.

635 Personal Finance I

Credit .5

Prereq: None (open to 11-12 gr. students)

This course covers personal financial issues that young people face in today's society. Students will have the opportunity to acquire and practice life-long investing, consumer and personal finance decision-making skills such as saving, checking accounts, career earnings, budgeting, taxes, credit management, investments, insurance as well as identity theft and consumer protection.

641 Basic Keyboarding/Word Processing

Credit .5

Prereq: Students may take either Basic Keyboarding or College Keyboarding

Basic keyboarding allows students to learn the keyboarding skills necessary to operate a computer by the "touch system" using sophisticated keyboarding development software. Students use these skills to format a variety of documents for personal use, e.g., letters, envelopes, and term papers. It is strongly recommended that all students at Cuginchaug acquire good keyboarding skills as early as possible in their high school careers.

COURSE OFFERINGS

642 College Keyboarding/Word Processing

Credit .5

Prereq: Students may take either Basic Keyboarding or College Keyboarding

The ability to keyboard information by the “touch system” is an essential skill for all college-bound students. Students learn the alphabetic and numeric keys by using sophisticated keyboarding development software. Students complete a variety of personal and business documents. It is strongly recommended that all students at Coginchaug acquire good keyboarding and word processing skills as early as possible in their high school careers. *Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program.*

643 Microsoft Office

Credit .5

Prereq: Keyboarding recommended

This course gives students an understanding of how a micro-computer and the state-of-art integrated software package, Microsoft Office, can be used to create custom solutions for problems related to business, school, and personal use. *Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program.*

661 Accounting I

Credit 1

Prereq: Open to sophomores, juniors and seniors

Accounting I presents the introductory concepts and procedures of double-entry accounting and the accounting cycle for both service and merchandising businesses organized as sole proprietorships, partnerships, and corporations. The general journal and special journal approach is utilized. This course provides the skills needed for entry-level employment as well as a foundation for post-secondary study in accounting or other business areas. *Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program.*

662 Accounting II

Credit 1

Prereq: Accounting I

Accounting II is a continuation of the study of accounting concepts and procedures presented in Accounting I. Automated accounting continues to be emphasized and integrated into each lesson. The completion of several automated accounting simulations, utilizing up-to-date accounting software and computers, provides students with “hands on” experience. Accounting II is necessary for all students who are planning full-time study or employment in the accounting field.

663 Accounting III

Credit .5

Prereq: Accounting II

This advanced accounting course is designed for students highly motivated in accounting and capable of doing the work in a self-directed manner. Accounting III is a fully automated course designed to give students hands-on experience using computer applications to solve accounting problems.

COURSE OFFERINGS

COMPUTER SCIENCE

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
Web Page Design Beginning Visual Basic Intermediate Visual Basic	Web Page Design Beginning Visual Basic Intermediate Visual Basic	Web Page Design Beginning Visual Basic Intermediate Visual Basic	Web Page Design Beginning Visual Basic Intermediate Visual Basic

- The courses offered are part of the K-12 information technology continuum.
- Courses offered will provide the student the skills necessary to create web pages and computer programs.
- Completion of Algebra I is a prerequisite for Beginning Visual Basic and Intermediate Visual Basic.

372 Web Page Design

Credit .5

Prereq: None

This course is an introduction to web page design, layout and construction. It will introduce students to HTML coding skills, Cascading Style Sheets, a web page editor, JavaScript, and image creation software. After completing structured learning activities, students will plan and create a personal website demonstrating their understanding of the elements of design and coding that they have learned. Students will also learn to use web development applications such as Dreamweaver and Frontpage.

381 Beginning Visual Basic

Credit .5

Prereq: Algebra I

Microsoft Visual Basic has risen as the most popular environment for building Windows applications quickly and easily. This course introduces event-driven computer programming using the Visual Basic programming language. It is a lab-oriented class that teaches students how to write Windows-based computer programs that run using on-screen user interfaces. Emphasis is placed on writing logically structured, well documented programs. The basic programming topics include input/output, decision structures, repetition, relational and logical operators, built-in functions and graphics. The on-screen component includes designing user-friendly interfaces containing buttons, list boxes, and picture boxes.

381 Intermediate Visual Basic

Credit .5

Prereq: Algebra I

This course is a continuation of Beginning Visual Basic. Topics covered include subroutines, user-defined functions, arrays, string functions, graphics, reading and writing files, searching and sorting. This course is project-oriented, and special attention is placed on structured programming.

COURSE OFFERINGS

ENGLISH

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9C English 9B English 9A	English 10C English 10B English 10A European Studies A/B	English 11C English 11B English 11A American Studies B	UConn/AP English <i>All other twelfth grade courses are elective.</i>
Electives (Electives are available senior year by teacher recommendation. Seniors must select one literature intensive semester elective*. Juniors may select elective courses in addition to required coursework if space permits and with teacher recommendation.)			
Creative Writing Academic College Writing Accelerated College Writing Theater Arts Riding the Information Superhighway Fantastic Literature* Great Loves, Great Lovers*	The Hero in Literature* Monsters in Our Midst* The Message of Film Psychology in Literature* Survey of British Literature* Shakespeare* Short Stories and Poetry*	Women's Literature* Journalism Senior Journalism (full year)*	

- Four years of English are required for graduation.
- Students must take a full credit of English during each of their four years.
- All courses emphasize reading, writing, speaking, listening, and Habits of Mind.
- All courses (A, B, C, and electives) follow a college preparatory curriculum.
- Course levels are determined by teacher recommendation and based on assessments of reading and writing skills and Habits of Mind.

* Denotes a literature intensive semester elective.

COURSE OFFERINGS

111, 113, 114 ENGLISH 9

Credit: 1

Prereq: Teacher recommendation

The English 9 curriculum focuses on the skills and traits necessary for success as a student in the contemporary era. These courses also focus on classical themes in literature, which are developed from literary archetypes rooted in Greek mythology, as they are applied to the study of short stories, poetry, novels, and drama. Regular vocabulary study and a strong emphasis on writing and grammar skills are important components of these courses. All levels of English 9 prepare students for success in a four-year college program.

121, 123, 124 ENGLISH 10

Credit: 1

Prereq: Teacher recommendation

The English 10 curriculum focuses on the identity of the student in a global context. This course examines the relationship between language, power and identity with strong emphasis on expository writing, vocabulary study, and the analytical reading and writing skills measured on the CAPT. The literature focuses on global and multicultural selections. All levels of English 10 prepare students for success in a four-year college program.

122 EUROPEAN STUDIES

(Interdisciplinary Course)

Credit: 1

Prereq: Teacher recommendation

Taken in conjunction with Social Studies 222

This interdisciplinary course integrates European history with British literature. Taking advantage of the chronological and topical overlap between the two curricula, this course enriches students' understanding of historical eras by adding the arts,

role-playing, and interdisciplinary analysis to the traditional curriculum. This course prepares students for success in a four-year college program.

131, 133, 134 ENGLISH 11

Credit: 1

Prereq: Teacher recommendation

The English 11 curriculum focuses on the study of American literature. Through the study of novels, short stories, poetry, drama, and non-fiction, students become familiar with the major trends in American literature and the rich variety of literature found in a multi-cultural society. A research based paper and improvement of reading, expository writing, and vocabulary skills are major features of this course. All levels of English 11 prepare students for success in a four-year college program.

132 AMERICAN STUDIES

(Interdisciplinary Course)

Credit: 1

Prereq: Teacher recommendation

Taken in conjunction with Social Studies 232

This interdisciplinary course unites American history and American literature. It analyzes the cultural and intellectual ideas of the evolving American Republic. Independent research, analytical and creative papers, group projects, debates, and presentations are hallmarks of this course. Students in this course are notably hands-on learners with considerable capacity for interactive discourse. This course prepares students for success in a four-year college program.

COURSE OFFERINGS

SENIOR ELECTIVES

Seniors must choose one literature based* course.

140 CREATIVE WRITING 12

Credit .5

Prereq: Teacher recommendation

Fall Semester

This course offers students the opportunity to develop their ability to write creatively and effectively in a variety of forms: poetry, short story, personal narrative, non-fiction, and drama. Students will produce, revise, and publish a considerable body of writing over the course of the semester. Writing from this class may be used in the *Theater Arts* class as the basis for an original play shared with the community.

This course prepares students for success in a four-year college program.

141 ACADEMIC COLLEGE WRITING 12

Credit .5

Prereq: Teacher recommendation

Limited to 15 students

This course reviews the fundamentals of the writing process. Students produce a number of different types of writing including narration, description, and exposition. Intensive focus on grammar and vocabulary is maintained throughout the semester. This course is beneficial to students pursuing work, military careers, or college after high school. This course prepares students for success in a four-year college program.

142 ACCELERATED COLLEGE WRITING 12

Credit .5

Prereq: Teacher recommendation

Limited to 15 students

This course is designed for the student who has mastered fundamental writing and grammar skills. The focus of writing instruction is on elements of style, expository essays, and literary analyses, and the workshop format of the coursework emphasizes the writing process. In addition, coursework covers considerable reading of noteworthy models of good writing. In the Fall, students will have the opportunity to develop college admissions essays. This course prepares students for success in a four-year college program.

143 THEATER ARTS 12

Credit .5

Prereq: Teacher recommendation

Spring Semester

This course affords the enthusiastic student an opportunity to learn various components of theater arts and to perform for the community. Significant reading and writing are required of students, and the course includes a capstone research project employing the skills acquired throughout the four years of high school English. All students are expected to participate fully in class since attendance and participation directly affect performance. The play shared at the end of the course may be based on the creative pieces from the *Creative Writing* course offered in the fall. Previous dramatic experience is not a prerequisite. This course prepares students for success in a four-year college program.

COURSE OFFERINGS

I 44 RIDING THE INFORMATION SUPERHIGHWAY: INTERPRETING AND PRODUCING TEXTS IN THE AGE OF INFORMATION

Credit .5

Prereq: Teacher recommendation

This communications course offers a structural approach to reading media in the *Age of Information* and will focus on oral and written communication through technology. Using the internet, students will read and respond to a range of texts in a variety of ways, including speeches, essays, and multi-media presentations. Students will also learn how to enhance their communication skills with effective use of software tools such as PowerPoint or HyperStudio. This course prepares students for success in a four-year college program. *Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our TECH PREP program.*

I 45 FANTASTIC LITERATURE: FEAR AND FASCINATION IN LITERATURE 12*

Credit .5

Prereq: Teacher recommendation

Stories of the fantastic have always been a part of literature. In this course, students will examine representative samples of fantastic literature (science fiction, fantasy, and horror) to see how writers have dealt with the things that fascinate and frighten us. Students will explore community and cultural values represented in literature through critical reading, analytical writing, and oral reporting. This course prepares students for success in a four-year college program.

I 46 GREAT LOVES, GREAT LOVERS 12*

Credit .5

Prereq: Teacher recommendation

This course examines both the relationships and conflicts of men and women as well as their society that spans Renaissance to the modern drama of Ibsen's *A Doll's House*. Students investigate the roles of men and women and their modern malaise by looking at poetry, short story, film, drama, and the modern novel. As they continue to sharpen their critical reading skills, students will write both expository and personal response essays. This course prepares students for success in a four-year college program.

I 47 THE HERO IN LITERATURE 12*

Credit .5

Prereq: Teacher recommendation

This course examines the many different types of heroes found in our society from the typical cowboy hero of the Old West to the modern anti-hero. Students explore various heroic models and the values they represent in the cultures to which they belong. As they continue to develop their critical reading skills, students will write expository and personal response essays. This course prepares students for success in a four-year college program.

COURSE OFFERINGS

148 MONSTERS IN OUR MIDST 12*

Credit .5

Prereq: Teacher recommendation

A shepherd eats men for breakfast...a lonely child crushes warriors who won't talk to him...a businessman wakes up one day as a cockroach.... From ancient mythology to contemporary film, monsters have been romping in our midst with relentless stamina and strength. What constitutes "monstrous"? Why do monsters persist among cultures and over time? In addition to classic texts such as *Beowulf* and *Frankenstein*, we will explore vampires, werewolves, mummies and alien-robots in poetry, film, art and commercial media. This course prepares students for success in a four-year college program.

150 THE MESSAGE OF FILM 12

Credit .5

Prereq: Teacher recommendation

This course examines the genre of film. Students study the history of film, the process of translating literature into film, and the art of filmmaking. Skills in critical thinking, expository writing, and critical viewing are emphasized. Several papers and an individual project are required. Due to the availability of films, a strict attendance policy is enforced. This course prepares students for success in a four-year college program.

151 PSYCHOLOGY IN LITERATURE 12*

Credit .5

Prereq: Teacher recommendation

In this course students will examine the way authors, filmmakers and artists have depicted the complexities of human behavior. Beginning with a study of psychoanalytical literary pioneers such as Sigmund Freud, we will examine evolving psychological theories and how they are portrayed in literature and art. The emphasis of this course is critical reading through the lens of various psychoanalytical theories and the analytical essay. This course prepares students for success in a four-year college program.

152 SURVEY OF BRITISH LITERATURE*

Credit .5

Prereq: Teacher recommendation

This course explores the various periods, genres, and themes of the British tradition. Students will study representative works from the Anglo-Saxon period to the contemporary period, including poetry, short stories, novels, and drama. Students will note the ways American culture has adopted, adapted, and rejected British ideology. A strong emphasis will be placed on critical reading and analytical and expository writing. This course prepares students for success in a four-year college program.

COURSE OFFERINGS

153 SHAKESPEARE 12*

Credit .5

Prereq: Teacher recommendation

This course explores some of the Bard's best-known works including his sonnets and The Taming of the Shrew, *The Merchant of Venice*, *Much Ado About Nothing*, *Othello*, and, if time permits, a history play. The emphasis is on close reading of the text, outside investigation of Renaissance topics, participation and discussion, as well as some memorization and/or dramatization of the text. Students will become acquainted with the beauty and resonance of Shakespeare's poetry and language. This course prepares students for success in a four-year college program.

154 SHORT STORIES AND POETRY 12*

Credit .5

Prereq: Teacher recommendation

This course examines two kinds of "short" literature that can be read and enjoyed in one sitting. Students study the art of short fiction and the poem to understand their differences as well as their similarities. They study the modern, popular short story and its themes and often parallel those stories with poetry. The course writing reflects both creative and literary critical essay writing. This course prepares students for success in a four-year college program.

155 WOMEN'S LITERATURE 12 *

Credit .5

Prereq: Teacher recommendation

This course is about the world of women in literature: women as authors and women as characters. The visions and voices of women will reveal the world and the society in which they were created. Students will read short stories, novels, drama, non-fiction and poetry. Emphasis will be on critical reading skills and analytical essay writing. This course prepares students for success in a four-year college program.

156 JOURNALISM

Credit 1

Prereq: teacher recommendation

Journalism, an underclassman elective, introduces students to the basics of news, feature, and editorial writing. Students will learn to find ideas, interview sources, write leads, and prepare stories for publication in the school newspaper. The course requirements include firm deadlines and an expectation that participants will be willing to attend and report on events occurring outside the class period. This course prepares students for success in a four-year college program.

COURSE OFFERINGS

157 SENIOR JOURNALISM*

Credit 1

Prereq: teacher recommendation

Students in Senior Journalism demonstrate facility with various writing techniques. This advanced course includes an analysis of the role journalists play in public discourse, the ethical standards to which journalists adhere, and practice with advanced journalistic styles such as investigative reporting and trend stories. The course requirements include firm deadlines and an expectation that participants be willing to attend and report on events occurring outside the class period. This course prepares students for success in a four-year college program.

160 UCONN/AP ENGLISH*

Credit 1

Prereq: English 11A and teacher recommendation;
Limited to 15 students

This full year course is a college-level writing and literature course that emphasizes the refinement of analytical reading and writing skills. Students are required to complete a substantial number of reading assignments and a minimum of 30 pages of polished writing per semester. Students register with and receive credit from the University of Connecticut for English 1010 or English 1011, and they may elect to take an Advanced Placement exam near the end of this course. This is a college course.

COURSE OFFERINGS

FAMILY AND CONSUMER SCIENCES

Grade	Nutrition and Foods	Child Development	Design
9	Introduction to Nutrition and Foods	Child Development	Textiles Interior Design
10	Introduction to Nutrition and Foods Advanced Foods	Child Development Advanced Child Development	Textiles Interior Design
11	Introduction to Nutrition and Foods Advanced Foods	Child Development Advanced Child Development	Textiles Interior Design
12	Introduction to Nutrition and Foods Advanced Foods	Child Development Advanced Child Development	Textiles Interior Design

- The Family and Consumer Sciences program is entirely elective.
- All courses are open to both boys and girls.
- The program aims to stimulate the development of skills and concepts that will have value in students' present and future lives.

COURSE OFFERINGS

811 Nutrition and Foods — An Introduction

Credit: .5

Prereq: None

This is a lab course in food preparation. In addition to units in planning and preparation of family meals and preparation of various categories of food, it includes a study of basic nutrition.

812 Advanced Nutrition and Foods

Credit: .5

Prereq: Intro to Nutrition and Foods and approval of instructor

Students develop skills in advanced preparation of foods from all food groups. International foods, main dish preparation, techniques of garnishing, and food decoration are emphasized. In addition, the study of nutrition continues.

821 Child Development

Credit: .5

Prereq: None

The study of Child Development begins with understanding pregnancy, prenatal development and childbirth. Readings for parenting are also addressed. Child Development concentrates on infancy and early childhood. Physical, social, emotional, and intellectual development are discussed. A nursery school for pre-school children is planned and operated by the students. Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our TECH PREP program.

822 Advanced Child Development

Credit: .5

Prereq: Child Development and approval of instructor

This course continues the study of the physical, social, emotional, and intellectual development of the child. Greater emphasis is placed on practical application through work with children of different age levels in the nursery school at Coginchaug in various community pre-school and elementary school programs. Students concentrate on childcare as a career.

831 Introduction to Interior Design

Credit: .5

Prereq: None

In this course students will apply knowledge of design elements to decorating an apartment or home. Also included is a study of housing and furniture styles. Career opportunities in interior decoration will be explored.

832 Textile Arts

Credit: .25 or .5

Prereq: None

This is an independent project-oriented course where students choose skills they wish to develop for clothing construction, quilting, knitting, or other textile related crafts.

COURSE OFFERINGS

HEALTH

Grade	Health	Quarter Offered
9	Health 9	Quarter 1
10	Health 10	Quarter 2
11	Health 11	Quarter 4
12	Health 12	Quarter 3

PHILOSOPHY

Health education is an integral part of the total physical, social, emotional, and mental development of human beings. Health education should foster the personal growth of the individual student to become a well-informed, responsible adult possessing the skills necessary to achieve and maintain optimum health and wellness.

The purpose of the health education program is to provide students with the knowledge, skills, and attitudes they need to choose, maintain, improve and promote lifelong physical, social, emotional and mental health.

OFFERINGS

Each grade is enrolled in health class for one quarter of the year. Grade 9 students take health in quarter 1, grade 10 students in quarter 2, grade 12 students in quarter 3, and grade 11 students in quarter 4.

Health 9

- Review of Cuginchaug Handbook: drug and alcohol policy, harassment/sexual harassment, school rules and policies.
- Making Healthy Choices, identifying risks, decision making skills and taking responsibility for personal health.
- Mental Health: Bullying, evaluating problem situations, conflict resolution, suicide prevention.
- Infectious Disease: the nature of infectious disease, the body's defenses against infection, development of infectious disease, common infectious disease.
- HIV/AIDS and sexually transmitted diseases: Types of diseases and prevention of diseases.
- Preventing drug abuse: legal and illegal drugs, risk factors and drug abuse, commonly abused drugs, choosing to be drug free, addiction.
- Current Health Issues.

Health 10

- Non-Infectious Diseases: cardiovascular diseases, cancers, diabetes, asthma, arthritis, disabilities.
- Alcohol: patterns of use and abuse, laws, DUI, search and seizure, vehicle safety, binge drinking, fetal alcohol syndrome.
- Family structures: family types, stress, crisis, abuse, chemical dependence in families, coping strategies.
- Preventing violence: what is violence?, identify risk factors associated with violence, identify how conflicts start, recognizing emotions and how to resolve conflicts without fighting.
- Current Health Issues.

Health 11

In addition to the course content, juniors are required to complete at least 7 hours of community service or volunteer hours to a community organization during the 4th quarter. This experience can include, CPR/ First AID, MADD Power Camp, summer mission trips, Community Round-up. This junior project is required to pass Health 11 and receive credit for the class. Credit in junior health is required for graduation.

- Personality, Self-Esteem and Emotions: how personality is formed, development of personality, identifying, coping and expressing emotions.
- Building Healthy Peer Relationships: skills for healthy relationships, friendships, responsible relationships, dating relationships, dating violence.
- Reproduction and Heredity: the endocrine system, male and female reproductive systems, heredity, making healthy choices about sexuality.
- Pregnancy, Birth and Childhood: development before birth, healthy pregnancy, childbirth and childhood.
- Sexually Transmitted Infections and AIDS: risks of sexual activity, kinds of STI's, HIV and AIDS, protecting yourself from STI's and HIV/AIDS.
- Current Health Issues.
- Junior Project

Health 12

As with junior health, seniors are required to complete at least 7 hours of community service or volunteer hours to a community organization during the 4th quarter. This experience can include, CPR/ First AID, MADD Power Camp, summer mission trips, Community Round-up. This senior project is required to pass Health 12 and receive credit for the class. Credit in senior health is required for graduation.

- Stress: defining stress, effects of stress on the body and mind, managing stress and coping with stress.
- Healthy relationships and sexual assault.
- Mental disorders and suicide.
- Foods and Nutrition: Making healthy food choices, identifying essential nutrients, safely managing weight.
- Participating in your health care: becoming an educated consumer, financial health, public health, global health.
- Current Health Issues.
- Senior Project.

COURSE OFFERINGS

HISTORY AND SOCIAL STUDIES

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
<i>Global Studies I — The non-Western World</i> Global Studies I A Global Studies I B Global Studies I C	<i>Global Studies II— The Western Heritage</i> Global Studies II A Global Studies II B Global Studies II C European Studies ✦	<u>US History</u> US History A US History B US History C American Studies ✦ AP American History ►► <u>American Citizenship</u> ▲	<u>American Citizenship</u> ▲ AP US and Comparative Government ►►
Electives			
Current Issues	Current Issues	Current Issues Choices and Consequences Comparative Religions	Current Issues Choices and Consequences Comparative Religions

- ▲ Denotes a semester course.
- ✦ Denotes an interdisciplinary course scheduled and taught in coordination with the English department.
- Denotes an Advanced Placement course. These courses earn 1.5 credits. AP US History satisfies the US History requirement, and AP US and Comparative Government satisfies the Citizenship requirement.
 - For a CRHS diploma, students must earn a total of 3.5 credits in History and Social Studies. These must include a full credit of US History and one-half credit of American Citizenship.
 - Leveled courses present the same curriculum at each level and all levels prepare students for a four-year college program. A student’s level placement is based on teacher assessment of the student’s skill development in
 - ▷ critical and analytical thinking
 - ▷ reading and writing
 - ▷ ability to learn independently

The goal of the CRHS History and Social Studies curriculum is to equip each student with a solid grounding in the principles of government, history, economics, and culture. The emphasis is on material that has clear relevance to the 21st Century and on skills that will enable students to become active, discerning, responsible citizens, and life-long students of the ways people work together to meet their needs and resolve their differences.

COURSE OFFERINGS

**211, 213, 214 GLOBAL STUDIES I:
The non-Western World**

Credit 1

Prereq: None

Our Global Studies program begins by introducing students to the culture, geography, economics, politics, history, and contributions of the non-Western world. Using examples drawn from area studies - the Middle East, Africa, East and South Asia, and South America - students develop facility with foundational social studies concepts and vocabulary. Textbook work is supplemented with projects involving traditional and Internet research with an emphasis on critical assessment of sources. Area studies lead to examination of global issues such as international economic development, modernization of developing nations, and the role of international organizations in matters of war and peace. At all levels, this course is the first in our sequence to prepare students for attendance at a four-year college.

**221, 222, 223, 224 GLOBAL
STUDIES II: The Western Heritage**

Credit 1

Suggested Prereq: Global Studies I

The second year of our Global Studies program examines the evolution of Europe from the Renaissance to the 20th century, focusing on the development of the political, economic, cultural, and social institutions that continue to shape Western culture. The material is enriched by use of primary sources and analysis of enduring debates, referencing threads that reach from Classical to modern times. Particular emphasis is placed on skills for taking a position on a controversial issue and supporting it with evidence. Some students will be recommended to take this as European Studies (222), a course

coordinated with a section of English and designed to take an interdisciplinary approach. At all levels, this course is the second in our sequence to prepare students for attendance at a four-year college.

**231, 232, 233, 234 UNITED
STATES HISTORY**

Credit 1,

Prereq: 1 year of Social Studies

This course is a chronological survey that develops major themes in United States history. Analytical thinking and critical problem solving through the use of primary and secondary sources are the core skill objectives of this study. A basic text appropriate to the student's reading level is used. Required writing includes research papers, book reports, and essays. Some students will be recommended to take this curriculum as American Studies (232), a course coordinated with a section of English and designed to take an interdisciplinary approach. At all levels, this course is the third in our sequence to prepare students for attendance at a four-year college in addition to meeting the United States History requirement.

244 AMERICAN CITIZENSHIP

Credit .5,

Open to juniors and seniors

The purposes of this semester course are to examine the ways citizens can exert their influence on the governing process and to prepare students to be the active participants our democracy requires. While the course focuses on analysis of the structures, functions, and operations of our government at the federal level, it will include the study of issues at the state and local level as well. The course concludes with an in-depth analysis of the influences driving policy on a specific issue of each student's choosing. This course meets the state Civics requirement.

COURSE OFFERINGS

245 CHOICES AND CONSEQUENCES

Credit .5

Prereq: 2 years of Social Studies

This course explores the issues of individual responsibility and human rights. Based on a national curriculum developed over 20 years by the Facing History organization, the class examines how these issues relate to our responsibilities as members of society in general and of the many communities to which we belong. Both positive and negative historical examples inform students' consideration of how human beings treat one another. Historical case studies such as the Holocaust are used to make connections between individual rights and responsibilities and community action. Materials used include text, audio, and visual resources from historical and current events.

246 COMPARATIVE RELIGIONS

Credit .5

Prereq: 2 years of Social Studies

The major world religions - Christianity, Judaism, Islam, Hinduism, Buddhism, Taoism - are examined as a response to basic human needs, as an expression of culture and environment, and as a political and historical force. Readings include excerpts from religious texts, wisdom literature, and analytical sources. Students investigate the life of a religious leader as well as ways that religion influences current events. The course is appropriate for students who enjoy discussion of metaphysics, philosophy, ethics, and culture. Note: the course addresses material that some may find sensitive; every effort is made to ensure that differing belief systems are discussed respectfully and even-handedly.

247 CURRENT ISSUES AT HOME AND ABROAD

Credit .5

Open to all students

Taking its material from the hot topics of the day, each quarter section of this course will explore three student-selected issues as case studies. Students will learn to use the tools of various Social Sciences disciplines such as media studies, sociology, and economics. Case studies in quarters 1 and 3 ("At Home") will draw from local and American challenges - our response to social and demographic changes, to dilemmas created by new technologies, and to difficult controversies about which we struggle to find common ground. Case studies in quarters 2 and 4 ("Abroad") will take on international and global questions ranging from environmental and health concerns to international security.

260 AP AMERICAN HISTORY

Credit 1.5

Prereq: Department recommendation

This advanced placement college-level course is offered for selected qualified juniors who plan to take the national Advanced Placement American History Exam in May. Students are required to read extensively and write critically on important issues in American history, with special attention given to the historical interpretation, analysis, and evaluation of a variety of reading and documentary materials. Department recommendation will be based on overall GPA, teacher recommendation, performance on a document-based essay task, and PSAT scores if available.

261 AP US AND COMPARATIVE GOVERNMENT

Credit 1.5

Prereq: AP American History or department recommendation

This college-level course is offered for selected qualified seniors who plan to take the national Advanced Placement Exams in US Government and Comparative Government. It is an appropriate choice for students interested in pursuing a career in law, politics, government, or international relations. The first half of the course concentrates on the structures and functioning of the American governmental system with an emphasis on national-level policy-making. The second half introduces broader concepts of political science through close examination of six case-study countries. Students are required to read and write extensively, critically, and independently, working to college-level performance expectations.

COURSE OFFERINGS

MATHEMATICS

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
Applied Math	Pre-Algebra	Algebra 1C*	Geometry C
Pre-Algebra	Algebra 1C*	Geometry C	Algebra 2C
Algebra 1* (A, B, C)	Geometry (A, B, C)	Algebra 2 (A, B, C)	Pre-Calculus ■ Trigonometry ■ ▲ Advanced Math Advanced Topics ▲
Geometry A	Algebra 2A	Pre-Calculus ■ Trigonometry ■ ▲	AP Calculus*
Electives			
	Elements of Algebra & Geometry Δ	Elements of Algebra & Geometry Δ	Elements of Algebra & Geometry Δ Probability & Statistics ▲

- Denotes a 1.5 credit course.
- ▲ Denotes a semester course.
- Must be taken concurrently
- Δ This course (while not technically an elective) will be taken by students who do not earn a C- or better in Algebra 1 or Geometry before moving on to the next course in the sequence.

-
- The mathematics curriculum provides a variety of courses designed to meet the needs for mathematical competency in both academic and vocational careers.
 - All ninth grade students are required to take mathematics, and a student must earn a minimum of three credits in math in order to graduate.
 - Most Coginchaug students take four years of mathematics.
 - Courses in the A-, B-, and C-level sequence are designed to prepare students for attendance at a four-year college.
 - Courses in applied mathematics and pre-algebra are designed for the student who needs a review of math skills before taking a full year of algebra.

COURSE OFFERINGS

- Depending on the progress of the student, movement from one level to another is definitely possible. The guidance counselor and the department must agree on these decisions.
- In order to progress to Geometry or Algebra 2, a student must have earned a C- or better in the previous course.
- It is highly recommended that students purchase a graphing calculator. The school will suggest a model and will order one for you if you wish.
- Students who wish to take AP Calculus as a senior must have had Algebra 1 in 8th grade OR take both Geometry A and Algebra 2A in 10th grade.
- Ninth grade students are placed in math courses appropriate to their ability and career plans.

311 ALGEBRA I A

Credit 1.5, Prereq: Department approval

This is a fast-paced and in-depth study of Algebra I that emphasizes an understanding of abstract concepts and their anticipated use in subsequent math courses. Topics include solving equations and inequalities in one variable, exponents and radicals, rational expressions, linear equations in two variables, quadratic equations, probability, and statistical analysis. Emphasis is placed on mathematical problem solving. This course prepares students for success in a four year college program.

312 ALGEBRA I B

313 ALGEBRA I C

Credit 1.5, Prereq: Department approval

This is a college preparatory course in Algebra I which is the first in a three year sequence of courses that integrates algebra, geometry, data analysis, and probability and connects all these mathematical

strands to real world applications. Topics in this course include statistical analysis, the laws of algebra, linear and non-linear functions, systems of equations, linear programming, and probability. The use of graphing calculators and computers is integrated throughout the curriculum. This course prepares students for success in a four year college program.

314 PRE-ALGEBRA

Credit 1, Prereq: Department approval

Pre-Algebra provides a thorough introduction to the language and skills of algebra, plus a review of some arithmetic skills. Upon successful completion of this course, students are prepared to pursue a more detailed study of Algebra I and Geometry. The following topics are included: algebraic expressions and integers, linear equations and inequalities, fractions, decimals, percents, graphing, probability and data analysis, and basic geometry skills. This course prepares students for success in a four year college program.

COURSE OFFERINGS

315 APPLIED MATH

Credit 1, Prereq: None

Students begin with a review of basic mathematical skills which include place value, rounding, operations with whole numbers, fractions and decimals.

Attention is given to practical applications. Other topics include proportion, percent, measurement in the customary and metric systems, and graphs and data, and basic geometric figures. Pre-algebra concepts such as algebraic expressions and equations, and the use of calculators are introduced. This course prepares students for success in a four year college program.

321 GEOMETRY A

Credit 1, Prereq: Minimum C- in Algebra I, Department approval

Geometry is concerned with the properties of, measurement of, and relations between lines, angles, surfaces, and solids. Geometry A stresses logical thinking and proof, which require strength in critical thinking and sound study habits. Topics in this course include deductive reasoning, parallel lines and planes, congruent triangles, quadrilaterals, inequalities in geometry, similar polygons, right triangles, circles, areas of planes, and area and volume of solids. This course prepares students for success in a four year college program.

322 GEOMETRY B

323 GEOMETRY C

Credit 1, Prereq: Minimum C- in Algebra I

This course is designed to develop the power to form logical deductions through a valid process of mathematical reasoning. The relationship of points, lines, and figures in a plane is integrated with the study of three-dimensional figures. Emphasis is placed

on significant connections between geometry and the real world, as well as connections between geometry, algebra, trigonometry, and probability. Topics include parallel lines, similarity and scaling, right triangles, congruent triangles, quadrilaterals, circles, and area and volume of solids. This course prepares students for success in a four year college program.

325 ELEMENTS OF ALGEBRA AND GEOMETRY

Credit 1, Prereq: Department approval

This course is intended for students who have already taken either Algebra I or Geometry and need further exposure to these topics before they continue to the next level of mathematics. It is also suited for students who need further work on the concepts emphasized on the Connecticut Academic Performance Test (CAPT). The following topics will be reviewed and expanded upon: Operations with integers and rational numbers; solution of linear equations and systems of linear equations; proportion and percent; similar polygons; area and volume; graphs; applications. This course prepares students for success in a four year college program.

331 ALGEBRA II A

Credit 1, Prereq: Geometry and department approval

Algebra II reviews and extends concepts presented in Algebra I such as linear functions and relations, and systems of linear equations and inequalities. The real number system is studied from a more advanced viewpoint, while new topics including solution of quadratics, graphing and solving systems of equations in 3-space, complex numbers, polynomial, rational, exponential and logarithmic functions, conic sections, and series are introduced. This course prepares students for success in a four year college program.

COURSE OFFERINGS

332 ALGEBRA II B**333 ALGEBRA II C**

Credit 1, Prereq: Minimum C- in Geometry

This course reviews and extends the concepts presented in Algebra I and Geometry. The concept of function is revisited and extended through a study of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions. In addition, the study of the real number system is extended to include complex numbers. Students who have met the agreed-upon criteria may receive college credit from Middlesex Community College in our TECH PREP program for Algebra II. This course prepares students for success in a four year college program.

341 PRE-CALCULUS

Credit 1, Prereq: Algebra II and Department approval

This is a preparatory course for college calculus that focuses on the study of polynomial, rational, exponential, and logarithmic functions. This study of functions is intended to summarize important concepts and methods used in concert to prove significant theorems and to solve practical problems. In addition, the concept of limits is introduced, extending from intuitive ideas about limits to the knowledge of a generalized limit as it applies to sequences, series, and functions. Calculus topics of differentiation and integration are introduced. Trigonometry is a prerequisite to this course or it can be taken concurrently. This course prepares students for success in a four year college program.

342 TRIGONOMETRY

Credit .5, Prereq: Algebra II and Department approval

This is a course in the study of the six circular functions (sine, cosine, tangent, cotangent, secant, and cosecant) and their use in solving right triangles. Additional topics include the Law of Sines, the Law of Cosines, vectors, and polar coordinates. This course must be taken concurrently with pre-calculus to prepare for the study of advanced mathematics and to elect AP Calculus. This course prepares students for success in a four year college program.

343 ADVANCED MATHEMATICS

Credit 1, Prereq: Algebra II and Department approval

This course begins with an in-depth study of trigonometry. Topics include the six circular functions (sine, cosine, tangent, cotangent, secant and cosecant), solving right triangles, the Law of Sines, and the Law of Cosines. Topics from Algebra II are reviewed and extended, including coordinate geometry, complex numbers, rational, exponential and logarithmic functions. Additional topics include conic sections, and sequences and series. This course prepares students for success in a four year college program.

345 PROBABILITY AND STATISTICS

Credit .5, Prereq: Algebra II and Department approval

This introductory course in probability theory and statistics is especially useful to college bound students who plan to further their studies in the sciences, engineering, or mathematics or for students who must take a semester of mathematics in college, but not calculus. Basic concepts of mathematical probability are studied. Investigations showing how probability is applied to every day life are made. Elementary statistical concepts of collecting, organizing, and interpreting numerical data are

COURSE OFFERINGS

studied and applied to real life situations. Computers and graphing calculators are used to investigate concepts and to aid in lengthy calculations. This course prepares students for success in a four year college program.

346 ADVANCED TOPICS IN MATHEMATICS

Credit .5, Prereq: Algebra II

This course is designed for students who want to continue their study of college preparatory math but do not plan to continue with Advanced Math. The first half of this course concentrates on reviewing and developing math topics that are essential for success on the SAT. Additional topics include consumer mathematics, fractals, probability and problem solving. This course prepares students for success in a four year college program.

360 AP CALCULUS

Credit 1.5, Prereq: Pre-Calculus, Trigonometry and Department approval

This course is a college-level course in differential and integral calculus. Topics included, but are not limited to, functions and their graphs, limits and continuity, differentiation, integration, and applications. Graphing calculators are used extensively throughout the course and are required for the Advanced Placement exam. Students taking this course are expected to take the AP exam in the spring. This course prepares students for success in a four year college program.

MUSIC

Grade	Instrumental Music	Vocal Music	Music Theory/Technology
9	1. Freshman Concert Band 2. Jazz Ensemble	1. Concert Choir 2. Chamber Choir 3. Show Choir	1. Music Theory I 2. Music Theory II
10	1. Concert Band 2. Jazz Ensemble	1. Concert Choir 2. Chamber Choir 3. Show Choir	1. Music Theory I 2. Music Theory II
11	1. Concert Band 2. Jazz Ensemble	1. Concert Choir 2. Chamber Choir 3. Show Choir	1. Music Theory I 2. Music Theory II
12	1. Concert Band 2. Jazz Ensemble	1. Concert Choir 2. Chamber Choir 3. Show Choir	1. Music Theory I 2. Music Theory II

951 Music Theory I

Semester 1 - .5 credit - prerequisite approval of instructor

Music Theory I is a study of the fundamentals of music, including the recognition of notes, scales, intervals, modes and chords. The course also includes sight singing, ear training, rhythmic training, and an introduction to two computer software music programs (Finale Notation and Cakewalk MIDI recording).

952 Music Theory II

Semester 2 - .5 credit – prerequisite Music Theory I

Music Theory II is a continuation of Music Theory I and includes the study of basic harmonic composition and transcription of music for band and chorus. Included in the course is the continued study of ear training, sight reading, rhythmic training, and computer notation and MIDI recording.

961 Freshman Concert Band

1 credit

Freshman Band is designed to help students develop techniques and proficiency on a musical instrument, an understanding and appreciation for musical style and form, a knowledge of music theory, poise and self confidence through rehearsal and performance mediums. Band members study the technical aspects of playing instrumental music; fingering technique, rhythm studies, musical phrasing and sight reading. They have various concert and parade performance opportunities as a 9th grade ensemble as well as a combined ensemble with the Concert Band (grades 10-12). Attendance at all concerts and parades is mandatory. Instrumental music lessons are an integral part of the band program and all students are encouraged to enroll in this aspect of the program.

COURSE OFFERINGS

962 Concert Band

1 credit - grades 10-12

Concert Band continues on where Freshman Concert Band leaves off. In addition to the Freshman Band course description, concert band members have the opportunity to audition for and/or participate in the Shoreline Music Festival, Southern Region Music Festival, All-State Music Festival, ASBDA Honors Band, and the All-New England Music Festival. Attendance at all parades and concerts is mandatory.

All Concert Band members are eligible to audition for the **CRHS Wind Ensemble**. This is a 45-50 member band that performs music of a more advanced difficulty level. The ensemble meets around the same time as Concert Band (utilizing the lunch waves to create a 25 minute slot for the group to rehearse each band block) and requires no additional time.

963 Jazz Ensemble

.5 credit – auditioned in September

Jazz Ensemble has become a popular part of the high school instrumental program. Participating students will receive instruction in the jazz and popular music idioms and use the results in public performance. This band rehearses Monday, Tuesday and Thursday mornings from 6:45a.m. – 7:20 a.m. and Wednesday evenings 7:30 p.m. – 9:00 P.M. The group performs at a variety of concerts and programs throughout the year.

972 Concert Choir

1 credit

Students in grade 9-12 are offered training in expression through vocal music. Choir members are made aware of music of various eras and its interpretation, as well as sight singing. Concert Choir members perform for various public concerts and assembly programs. Individual students may also be selected for the All-New England choirs by audition. All choir members are expected to attend evening rehearsals and concerts during the school year.

975 Chamber Choir

.5 credit – auditioned in June

This specialized group rehearses every Tuesday evening for two hours, learning difficult music of all styles and periods. This group often performs carols during the holiday season for events around town, holds an annual Renaissance feast/concert and performs in the Chamber Choir Festival. Attendance is mandatory at all rehearsals and concerts.

976 Show Choir

.5 credit – auditioned in June

The Show Choir is an auditioned singing/dancing group for grades 9-12. Members are required to attend rehearsals Monday evenings 6:30 p.m. – 8:30 p.m. and Wednesday evenings 6:00 p.m. – 7:30 p.m. The group travels throughout the year and performs 10-15 concerts.

ADDITIONAL EXTRA CURRICULAR INSTRUMENT AND VOCAL MUSIC:

Pep Band, Sax Quartet, Clarinet Quartet, Flute Choir, Brass Choir, Boys A cappella (**No Refund**), Girls A cappella (**Nothing But Treble**), Dixieland Combo.

PHYSICAL EDUCATION

Grade	Required Physical Education	Elective Physical Education
9	Emphasis on Skill Development Volleyball Eclipseball Soccer Ultimate Frisbee Team Handball	Touch Football Walk-fit Martial Arts Yoga and Pilates
10	Emphasis on Fitness Testing Volleyball Skills II Eclipseball Skills II Soccer Skills II Ultimate Frisbee Skills II Team Handball Skills II	Yoga and Pilates Martial Arts Body Sculpting
11	Emphasis on Officiating Basketball Volleyball Eclipseball Soccer Ultimate Frisbee Team Handball	Yoga and Pilates Martial Arts Body Sculpting
12	Emphasis on Game Strategy Flag Football Volleyball Eclipseball Soccer Ultimate Frisbee Team Handball Cooperative Games	Yoga and Pilates Racquet Sports Martial Arts Body Sculpting Touch Football Walk-fit

- Physical Education provides a variety of individual and team activities that promote a healthy lifestyle.
- Emphasis is placed on enabling students to become proficient in a variety of core activities.
- Courses in the PE Department teach students the importance of incorporating activity into their daily lives.
- Students are required to take a total of 2 credits in physical education during their four years. Students will be enrolled in their required 1-quarter class (.25 credit per class) for each of their 4 years at Cuginchaug as well as one elective per year. They may choose to earn the remaining credit by fully participating in a variety of varsity and junior varsity sports (.5 credit per sport season).
- Students may also earn remaining credit by petitioning the Superintendent of schools to accept an activity that is supervised by an outside coach/instructor.
- Exceptions to this program are only to be made for medical reasons backed by a Physician's explanation.

COURSE OFFERINGS

11, 12, 13, 14 Physical Education

Required 9, 10, 11, 12

Credit .25

10 Physical Education Elective

Credit .25

Students choosing this elective will be placed in regular physical education classes. They will be required to participate in all regular physical education class activities.

15 Body Sculpting and Aerobic Activities

Credit .25

This elective will incorporate a self-designed weight-training program and various aerobic activities to help students acquire and maintain a high level of fitness. Students will carefully monitor their progress. They will also explore the role nutrition plays in their physical growth and energy levels.

17 Martial Arts/Self-Defense

Credit .25

Students will be taught various forms of martial arts which will increase their strength, flexibility, and body awareness. Their acquired knowledge of martial arts will then be put to practical use in strategies for self-defense. This course will be offered during the second or third quarter.

18 Racquet Sports

Credit .25

This elective will offer tennis out of doors and eclipse-ball/badminton/pickleball during inclement weather. This course will be offered during the first or fourth quarter.

19 Touch Football

Credit .25

Students will participate out-of-doors unless there is inclement weather. This course will be offered during the first and/or fourth quarter.

20 Walk-Fit

Credit .25

This elective is for the non-competitive student who wishes to chart and improve their fitness level but does not desire to play a sport. This course will be offered during the first and/or fourth quarter, and students will participate out-of-doors.

21 Yoga & Pilates

Credit .25

The Yoga and Pilates elective will be a high energy partnership of physical and mental techniques which will help to revitalize the mind and body, increase strength, flexibility and your ability to concentrate. Practiced regularly, it will benefit every aspect of your life, from improved posture, mood and physical well-being to an increased sense of happiness and peace.

COURSE OFFERINGS

SCIENCE

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
Integrated Science A Integrated Science B Integrated Science C Biology 1A*	Biology 1A Biology 1B Biology 1C Accelerated Chemistry Chemistry	Accelerated Chemistry Chemistry Conceptual Chemistry Physical Science Physics	A.P. Biology Physics Human Anatomy Conceptual Chemistry Physical Science
Electives			
Animal Behavior ■ Geology ▲ Meteorology/Astronomy ▲	Animal Behavior ■ Forensics I ▲ Forensics II ▲ Geology ▲ Meteorology/Astronomy ▲ Oceanography ▲	Animal Behavior ■ Forensics I ▲ Forensics II ▲ Geology ▲ Meteorology/Astronomy ▲ Oceanography ▲ Zoology ▲	Animal Behavior ■ Biodiversity ▲ Forensics I ▲ Forensics II ▲ Geology ▲ Meteorology/Astronomy ▲ Oceanography ▲ Zoology ▲

▲ Denotes a semester elective course available to students.

■ Denotes a quarter elective course available to students.

* In order to take Biology 1A as a freshman a student must be enrolled in Integrated Science A and Geometry A concurrently.

What the future holds depends largely upon the wisdom with which humans use science and technology. Coginchaug offers a comprehensive four-year program in science. Three years of science study, including Biology I, will be required for graduation.

Courses in the A-, B-, and C-level sequence are designed to prepare students for attendance at a four-year college.

COURSE OFFERINGS

411 INTEGRATED SCIENCE A

412 INTEGRATED SCIENCE B

413 INTEGRATED SCIENCE C

Credit I

Prereq: None

Integrated Science is an interdisciplinary course in basic physics and chemistry as they apply to the Earth, its materials and processes. Topics to be explored include conservation of energy, energy transfer and transformations, environmental impacts of various human activities, natural resources, and chemical structures and properties. Study of integrated science encourages stewardship of the earth through an understanding of earth processes. The approach used in this lab-science course emphasizes inquiry, discovery, and interpretation of student-obtained data. This course prepares students for success in a four-year college program.

421 BIOLOGY IA

422 BIOLOGY IB

423 BIOLOGY IC

Credit I

Prereq: Students who wish to take Biology IA as a freshman must also be enrolled in Integrated Science A and Geometry concurrently.

Biology I is an overview of life processes, biochemistry (including the importance of enzymes), cell structure and function, reproduction, genetics, population biology and evolution. Current issues of global warming, cloning, use of stem cells, and the impact of the human genome project on modern medicine are examples of topics that are covered. The frequent laboratory exercises afford students the opportunity to become physically acquainted with biological concepts and techniques of experimental science. This course prepares students for success in a four-year college program.

431 ACCELERATED CHEMISTRY

Credit I

Prereq: Completion of Integrated Science, Biology A and completion of or concurrent enrollment in Algebra II, and teacher recommendation.

Students will build on the fundamental chemistry concepts covered in Integrated Science. They will begin their year of chemistry studying in more detail nuclear reactions, quantum theory and periodic table trends. They will then immerse themselves in studying molar concepts involved in formula writing, equations and reactions. Unique properties of solids, liquids, and gases will then lead to the study of thermodynamics, acids and bases, and electrochemistry. Students in this course must be highly motivated to explore chemistry in detail and show the ability to work independently in the laboratory. This course prepares students for success in a four-year college program.

432 CHEMISTRY

Credit I

Prereq: Completion of or concurrent enrollment in Algebra II and teacher recommendation

Chemistry is the study of matter and the changes it undergoes. Topics covered are accuracy and precision of measurements, matter, atomic and molecular structure, bonding, the periodic table, chemical reactions, equation writing and calculations (stoichiometry), gas laws, solubility, acid-base reactions. In the laboratory, the properties of matter are applied, and chemical concepts are developed based on observations. This course is recommended for those planning to take additional science courses in high school and/or college.

COURSE OFFERINGS

433 CONCEPTUAL CHEMISTRY

Credit I
Prereq: Algebra I

In Conceptual Chemistry, a laboratory approach to the concepts of chemistry is emphasized. Practical chemistry, or the chemistry of common materials, is used whenever possible to provide an experimental basis for concepts included within the curriculum. General areas of study include matter and energy, atomic structure, the periodic table, chemical bonding, chemical reactions, acids and bases. Students study the same topics as in Chemistry at a pace designed to meet the needs of the class. This course is recommended for students considering higher education in any field.

434 PHYSICAL SCIENCE

Credit I
Prereq: Biology I

This course is offered for those students who do not possess the prerequisites for chemistry. Basic elements of physics will be covered with an emphasis on the development of concepts through laboratory work. Topics will include force, motion, energy, waves, light, sound, electricity and magnetism. This course prepares students for success in a four-year college program.

441 ADVANCED CHEMISTRY

Credit .5
Prereq: Chemistry A or Chemistry B

This semester course in chemistry is offered to complete those topics normally covered in introductory chemistry. Topics will include acids/bases, equilibrium, electrochemistry, heats of reaction, solubility and some organic chemistry. This course is essential for students who plan to study chemistry at the university level or plan to take the SAT II in chemistry.

442 PHYSICS A

Credit I
Prereq: Algebra II and concurrent enrollment in Trigonometry or Advanced Mathematics

The purpose of Physics is to develop an understanding of the principles, concepts, and laws related to the physical universe. Mathematics is an important part of the quantitative nature of physics. Experiments are performed to explain and relate principles, concepts, and laws of physics to the real world. Topics covered include motion, force, acceleration, gravity, momentum, energy, light, sound, and electricity. This course prepares students for success in a four-year college program.

443 HUMAN ANATOMY AND PHYSIOLOGY

Credit I
Prereq: Chemistry and approval of instructor

This course is specifically designed to provide an appropriate background in human anatomical and physiological study to those who plan to study any discipline within the Health Sciences. Units include, but are not necessarily limited to cell physiology, histology, the development and structure of bone and muscle, the central and peripheral nervous systems, and the cardiovascular system. Clinical simulations along with laboratory exercises in histology, physiology and applications in gross anatomy are intrinsic to the course. This is a Level A/B, college preparatory course.

444 FORENSIC SCIENCE I

Credit 0.5
Prereq: None

The purpose of this course is for students to gain experience in the major investigative techniques currently used by forensic scientists, crime scene investigators, and other law enforcement agencies, and to develop an understanding of the scientific

COURSE OFFERINGS

concepts which serve as the basis for these techniques. The course will focus on problem solving, with an emphasis on experimentation to collect and analyze evidence, research and evidence-based conclusions. Students will learn the methodology needed to evaluate crime scenes, the evidence collected and compare between known and unknown variables. The learning experience will include lecture, labs, research and activities. Topics of study will include history of forensic science, evidence analysis, crime scene processing, fingerprint, hair, blood, drugs and fiber analysis. This course is challenging due to the chemistry, physics, and biology content covered. This course prepares students for success in a four-year college program.

445 FORENSIC SCIENCE II

Credit 0.5

Prereq: Forensic Science I

Forensic Science II is a continuation of Forensic Science I. This course will continue to offer a look into current forensic techniques, but in new areas. Students will investigate crime scene scenarios by looking at trace evidence, DNA, human remains, soil, toxins, glass, documents and handwriting. Which topics are actually studied may vary depending on the scope and sequence of Forensic Science I. This course is challenging due to the chemistry, physics, and biology content covered. This course prepares students for success in a four-year college program.

446 BIODIVERSITY

Credit .5

Prereq: Chemistry

Biodiversity is a second level biology course with emphasis on the diversity and interactions of living organisms. Topics include taxonomy and field identification of local flora and fauna, plant and animal structures and functions, and ecological relationships. Students explore local biodiversity through field studies. Projects include an insect

collection and a wild flower collection. This course prepares students for success in a four-year college program.

447 OCEANOGRAPHY

Credit .5

Prereq: Integrated Science and/or permission of instructor

Oceanography is a semester course designed for students who wish to broaden their understanding of our “ocean planet” and critical marine issues of growing concern to us all. Study units will include a focus on local marine life and its ecological place in Long Island Sound, current environmental issues impacting waters of the earth, oceanic circulation as it affects weather and climate, and finally, advances that drive ongoing ocean exploration and research. Semester-long interaction with the CRHS Aquarium will enhance the seawater chemistry unit. Pursuit of an independent project such as tracking marine animals via satellite will be a major class project. This course prepares students for success in a four-year college program.

448 ZOOLOGY

Credit .5

Prereq: Biology I

Zoology is a semester course in which students study the diverse range of animals that exist on Earth, global issues related to the spread of disease by animals and the economic impact of beneficial and harmful insects. During weekly hands on labs, students compare and contrast the anatomy, physiology, development, and evolution of selected invertebrates and vertebrates. In depth studies of the anatomy of the earthworm, crayfish, sea star, frog, and rat are included. Considerable time is spent on a zoological project of the students' choosing. This course prepares students for success in a four-year college program.

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* Denotes electives available to freshmen.

*449 ANIMAL BEHAVIOR

Credit 0.25

Prereq: None

Students do authentic research! Much of the research is done in conjunction with the maintenance of the school aquarium, especially raising bait (brine shrimp and rotifers) to feed the fish. Additional topics covered include animal intelligence and communication, social and mating behaviors, hibernation and migration, instinctive versus learned behavior and the anatomy of animal nervous systems. Animal Behavior is a pass/fail quarter credit course open to all students.

*451 ASTRONOMY & METEOROLOGY

Credit 0.5

Prereq: None

Students will study the Earth and its place in space. Students will study meteorology, how the atmosphere developed, its components, how those components cycle, how humans interfere with those cycles, how energy is transferred in the atmosphere, the formation of weather systems and weather prediction. Students begin the semester tracking hurricanes and discovering the factors that help them form. Topics in astronomy will include constellations, solar radiation, orbital effects on days and seasons, “life cycle” of stars and the solar system. This course prepares students for success in a four-year college program.

*452 GEOLOGY

Credit 0.5

Prereq: None

Students will study the planet Earth’s internal processes and products: the internal structure, the transfer of energy to the surface, plate tectonics, formation of plate boundary features, mineral and rock resources, volcanism and earthquakes. Students will also learn about land processes and products: weathering of the land and how resources such as soil are formed, the work of erosion agents such as wind, gravity, glaciers, and the water systems of the land that create both resources and hazards (groundwater and flooding). Emphasis will be placed on Connecticut’s geologic history and its significance to us. Topographic map reading skills will also be covered. This course prepares students for success in a four-year college program.

460 ADVANCED PLACEMENT BIOLOGY

Credit 1.5

Prereq: Biology IA and Chemistry A and approval of instructor

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course, usually taken by biology majors during their first year of college. The AP Biology course is designed to be taken by students after the successful completion of both a high school biology and a high school chemistry course. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program for Biology.

COURSE OFFERINGS

TECHNOLOGY EDUCATION

Grade	Production Technology	Transportation Technology	CAD Pre-Engineering	Communication Technology
9	Exploring Technology Exploring Manufacturing I	Exploring Technology	Exploring Drafting/CAD I Exploring Technology	Photo I Intro to TV Production
10	Exploring Technology Exploring Manufacturing I	Exploring Technology Transportation Tech I	Exploring Drafting/CAD I Exploring Technology CAD II	Photo I Intro to TV Production Advanced TV Production
11	Exploring Technology Exploring Manufacturing I Manufacturing II Construction Technology	Exploring Technology Transportation Tech I Transportation Tech II Keeping your Car Alive	Exploring Drafting/CAD I Exploring Technology CAD II CAD III Architectural CAD III Mechanical Electronics & Robotics	Photo I Intro to TV Production Advanced TV Production
12	Exploring Technology Exploring Manufacturing I Manufacturing II Construction Technology	Exploring Technology Transportation Tech I Transportation Tech II Keeping your Car Alive	Exploring Drafting/CAD I Exploring Technology CAD II CAD III Architectural CAD III Mechanical Electronics & Robotics	Photo I Intro to TV Production Advanced TV Production

- Technology Education provides a significant contribution to the education of all students in a Technology-oriented world.
- Emphasis is placed on enabling students to become productive and contributing members of society who are adaptable to change and capable of economic self-sufficiency and lifelong learning.
- Courses in the Technology Education Department prepare students for jobs in the business world, serve as an introduction to pre-professional college courses, and/or provide students with skills for personal use.
- Courses reinforce core curriculum theory with practical hands on application.
- CAD courses are highly recommended by former CRHS students presently majoring in engineering.
- Transportation courses provide the building blocks for anyone who plans owning and operating a car. Presently, one third of the jobs in the USA are related to transportation.
- Students may receive college credit in our CCP Program. Students can receive course credit for **TV Production and CAD II** from Middlesex Community College.
- Freshmen should check the prerequisite requirements for individual classes in the Program of Studies.

COURSE OFFERINGS

711 Exploring Technology

Credit 1
Prereq: None

Technology in our world is in a state of constant change. By using the framework of communication systems, transportation systems, manufacturing systems, and construction systems, the student is exposed to both the theory and everyday practical hands-on experiences that make up our technical society. This course is an essential foundation course for students considering a more in-depth study of technology curriculum.

721 Exploring Manufacturing I

Credit .5
Prereq: None

This is a one-semester course introducing basic woodworking skills. The areas covered include the use of basic hand tools, the use of woodworking machines, the use of different materials (wood, plastic, and metal), the process used in the design of wood projects, the basic “tips” used in woodworking, and occupational opportunities. Students will build a number of small projects using a variety of the woodworking machines and will have the opportunity to design and build their own work.

722 Manufacturing II/III

Credit .5
Prereq: Exploring Manufacturing I

This is a one-semester course introducing advanced woodworking skills. This course explores procedures and the process of production techniques to construct a number of complex projects. The students will design and produce both individual and group projects in a variety of materials. There is an emphasis on the manufacturing process (design, prototype

construction, testing, marketing, production, and quality control) and the items that can be produced using this system.

724 Construction Technology

Credit .5
Prereq: Exploring Technology

This is a one-semester course covering the basics of construction. All aspects of building from site selection to construction methods and mechanical systems are covered. Students complete the course with enough experience in construction to build a storage shed for bikes or yard equipment. Basic designs and construction procedures for building a house are covered through the construction of a scale model of a wood frame house and hands-on electrical and plumbing projects.

731 Transportation Technology I

Credit 1
Prereq: Completion of Exploring Technology

Transportation Technology is an introductory course to power mechanics. Students study the maintenance and repair of automobiles and small engines. They learn skills by disassembling, testing, repairing, and replacing parts and testing engines. Emphasis is placed on the basic operation of the internal combustion engine. This course is suggested for 10th, 11th, and 12th grade boys and girls.

732 Transportation Technology II

Credit 1
Prereq: Completion of Transportation Technology I

This course provides a broad continuation of the theory and practice of power mechanics. Students receive in-depth experience using diagnostic electronic test equipment. Emphasis is placed upon

COURSE OFFERINGS

trouble shooting the major systems of the automobile engine. Students are allowed some opportunity to specialize in areas of their particular interest.

733 Keeping Your Car Alive

Credit .5

Prereq: Completion of 9th grade and a driver's license or permit

This course is designed for those students who wish to learn the basic business of car maintenance. Students learn to change oil, perform simple tune-ups, check fluids, adjust brakes, and perform other tasks which, when carried out on a regular basis, will save money and extend the life of a car.

741 Exploring Drafting and Computer Aided Design I

Credit 1, Prereq: None

This course is a full year introduction to basic technical drafting and basic computer aided design. The skills of sketching, instrument drafting, and Computer Aided Design (CAD) are basic communications that everyone needs to be exposed to in our highly technology oriented world. Areas of study included in this course are learning the basics of drafting, an introduction to AutoCAD LT (an industry standard software for CAD), and an introduction to Photoshop. Any student considering engineering or architecture as a career should be exposed to these disciplines.

742 Computer Aided Design II

Credit 1, Prereq: Exploring Drafting and CAD I

This course is a full year introduction to 3D solid modeling as well as architectural CAD drafting and design. The first half of the course will be involved with creating and manipulating 3D solids using the SolidWorks software platform. The second half of

the course will expose the student to architectural drafting and residential architectural design using the Chief Architect software platform. Any student considering engineering or architecture as a career should be exposed to these disciplines. Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program.

743 Computer Aided Design III - Architectural

Credit .5, Prereq: CAD II

This course is a half year (fall semester) computer aided design course that builds upon the earlier architectural exposure. Students will work on advanced architectural drafting (residential architectural design, contract working documents, presentation renderings) as well as a variety of schematic design problems and the relevance of architectural history. Chief Architect and AutoCAD LT software platforms will be used and developed. Student considering architecture as a career would benefit from this class.

744 Computer Aided Design III - Mechanical

Credit .5, Prereq: CAD II

This course is a half year (spring semester) computer aided design course that builds upon the earlier 3D object manipulation. Students will work on advanced engineering drafting (3D object creation, 3D assembly, and production document drawings) as well as physical manufacturing/production operations. SolidWorks and MasterCAM software platforms will be used. Prototyping objects will be accomplished using a small CNC mill in the Woodshop. Any student considering engineering as a career would benefit from this class.

COURSE OFFERINGS

745 Electronics & Robotics

Credit .5

Prereq: Exploring Technology & approval of instructor

This Robotics course will provide students with an opportunity to develop an understanding of what it takes to design, produce, develop, and analyze a working robot. This is a very complicated endeavor drawing from many different disciplines. Skills will be developed with both text book assignments and hands-on experiences. At the end of this course students will have completed a number of small BEAM robots and one programmable robot.

752 Photography I

Credit .5

Prereq: None

This is an introduction to photography. Elements of good picture-taking, camera handling, and darkroom procedures are covered. Emphasis on quality composition, working the subjects, and getting images that tell a story are all traditional photographic concepts which need to be understood as we enter the digital age. Students are required to provide a digital camera. Students should plan to spend modestly on photographic materials.

761 Introduction to Television Production

Credit .5

Prereq: None

Introduction to TV Production is designed to give students a hands-on experience in the field of television broadcasting. Students will learn about production elements, the TV studio, acting, directing, TV commercial production, career exploration, news gathering, and field production. One of the requirements of this course will be for students to work together in small groups to create short programs that meet broadcast quality standards.

762 Advanced Television Production

Credit .5

Prereq: Intro to Television Production

Advanced Television Production is designed to give students an extensive and comprehensive experience of the television production industry. Students in this course will learn advanced techniques in non-linear editing, digital video camera operation, writing for news segments, and conducting field productions. Advanced Television Production students will be responsible for creating broadcast quality work to be submitted to air on television and for the video production of specific school events. Students who have met the agreed upon criteria may receive college credit from Middlesex Community College in our CCP Program.

COURSE OFFERINGS

VISUAL ART AND DESIGN

Grade	Drawing Design Graphic Design Painting/Printmaking	Ceramics/Pottery	Independent Study
9	* Drawing * Design	* Design	* Drawing * Design
10	* Drawing * Design	* Design	Independent Study (Example —Portfolio Preparation)
11	* Drawing * Design Painting/Printmaking Graphic Design	Ceramics/Pottery	Independent Study (Example —Portfolio Preparation)
12	* Drawing * Design Painting/Printmaking Graphic Design	Ceramics/Pottery	Independent Study (Example —Portfolio Preparation)

* Design is a prerequisite for all courses except Drawing and Graphic Design.

- The visual art program brings the arts into the classroom through an awareness of art history, art appreciation, art vocabulary, and analyzing and interpreting visual images.
- Goals of the art program are to help students:
 - Think divergently.
 - Use creative problem-solving skills employing the elements and principles of art.
 - Understand and demonstrate the use of a variety of media and techniques.
 - Express personal vision and imagination.
 - Complete quality artworks with artistic vision that synthesize skills and concepts.
 - Value the relationship between art and the natural and man-made world.
 - Develop an awareness of how art and design affect our world.
 - Become aware of the breadth of career opportunities connected to the art and design and its creative application through technology.
- In planning a program in art, students should note the following:

Students considering careers in art, video, film, photography, animation, architecture, fashion merchandising, interior or industrial design, graphic or web design, and entertainment *may be* required to submit a portfolio for college application. It is recommended that those students plan to enroll in Drawing, Design, and Portfolio Preparation courses.

911 DESIGN

Credit .5

Prereq: None

Everything in our physical world is designed – either by nature or man. This course introduces students to the language of design and how design choices affect their daily lives. The design elements (line, shape, form, tone, color, texture, and space), and design principles (composition, unity and variety, balance, and repetition), are the foundation in creating two and three-dimensional artworks from a variety of materials. The integration of design in fine art, careers, media, and functional objects is covered as well. The study of design, past and present, is also a component of this course. Students are required to keep an art journal/sketchbook.

912 DRAWING

Credit .5

Prereq: None

Skill in drawing and observation is the foundation for all visual arts and design. This course introduces students to the fundamentals of drawing through activities using contour, gesture and sketch line. In addition, students learn to work with tone/shading and color techniques to realistically draw form. Subjects include still life, life, portraits, and personal expression. Drawing materials used include: design pencil, ink pens, charcoal, colored pencil and pastel. Students are required to keep an art journal/sketchbook.

921 CERAMICS/POTTERY

Credit .5

Prereq: Design and teacher recommendation

This course involves the exploration of clay as material for sculptural design and functional forms using coil, slab, and wheel construction. The course includes glaze application, glaze composition, and knowledge of stacking and firing the kiln. A commitment to help with studio maintenance, the ability to use time and material responsibly, and excellent craftsmanship are a must for those electing pottery. Student's fingernails cannot be long.

931 PAINTING/PRINTMAKING

Credit .5

Prereq: Design or Drawing and teacher recommendation

This course introduces a variety of painting and printmaking techniques. Painting goals include exploring tempera, watercolor and acrylic media to develop an understanding of color, content, originality and style. Printmaking images are created through the processes of monotype, monoprint, linoleum cut, dry point etching, and silkscreen. Personal expression and mixed media work is encouraged. This course includes the study of relevant artists' art and their works. Either prerequisite must be completed before taking this course.

COURSE OFFERINGS

941 GRAPHIC DESIGN USING ADOBE PHOTOSHOP

Credit .5

Prereq: Design or Drawing and teacher recommendation

This course is team taught by the Technology Education and Visual Arts Departments. The student is challenged to create a series of graphic design assignments. In the art studio students develop their ideas, composition and design skills with traditional art materials. Students then translate their plans in the CAD lab using the many tools available in Adobe Photoshop. The integration of art and technology and working as a team to deliver a visual presentation to a “client” are key components of this course.

INDEPENDENT STUDY

Credit .25

Prereq: Drawing and Design and recommendation by student or teacher

Frequently students wish to pursue extended study in one of the art course offering areas. This can be done through the Quest Program (**Independent Study**.) Art portfolio preparation is an example of an Independent Study that uses the AP Art curriculum as a guide. A student may take up to two Independent Studies. Information is available from the Guidance Office or Art Department.

WORLD LANGUAGES

Grade	French	Latin	Spanish
9	French 1 French 2	Latin 1 Latin 2	Spanish 1 Spanish 2
10	French 1 French 2 French 3	Latin 1 Latin 2 Latin 3	Spanish 1 Spanish 2 Spanish 3
11	French 1 French 2 French 3 French 4	Latin 1 Latin 2 Latin 3 Latin 4	Spanish 1 Spanish 2 Spanish 3 Spanish 4
12	French 1 French 2 French 3 French 4 French 5	Latin 1 Latin 2 Latin 3 Latin 4 Latin 5	Spanish 1 Spanish 2 Spanish 3 Spanish 4 Spanish 5

The World language Department offers five years of study in each of three languages: Latin, French and Spanish. World Languages instruction provides not only development of grammar and vocabulary in the target language, but also cultural insight and an increased appreciation of one’s own language. Students planning to attend college are encouraged to pursue at least three years of study in one language. Many students also benefit from the study of a second world language.

- Placement for incoming students is determined by three criteria.
 1. Basic skills assessment
 2. Middle school teacher recommendation
 3. Middle school grade
- Students who study World Language at Coginchaug will experience culture through foods, music, art, literature, guest speakers and field trips.
- Students are able to switch or add languages during the course selection period.
- Many students at Coginchaug take more than one World Language.
- College bound students should take a minimum of three high school years of the same language.

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512 Latin I

Credit I
Prereq: None

Students study the fundamentals of the Latin language to develop an ability to translate and read basic Latin. Roman culture, customs, and mythology are studied, especially in their influences on modern life. This course is valuable in developing English grammar and vocabulary skills.

522 Latin II

Credit I
Prereq: Successful completion of Latin I

The vocabulary and grammar of Latin I is thoroughly reviewed. Additional grammatical concepts, vocabulary and an introduction to Greek mythology are also included. The course is based upon a study of major Latin authors and their works, such as Apollonius' Jason and the Argonauts, Ovid's mythology, and Pliny's letters.

Latin III-IV

Credit .5
Prereq: Successful completion of Latin II

All students who have completed two years of Latin may choose any one or all four semesters of Latin courses offered over a two year span, with .5 credit per semester. All courses include review of grammar, vocabulary, and derivatives as needed by the students, as well as translation, discussion, and supplementary and critical readings.

532 Greek and Roman Mythology

(to be offered in 2011-2012)

Students will study Greek and Roman mythology in Latin and English as well as translate selections from Ovid, Aesop, and Apuleius.

542 A Survey of Roman Authors

(to be offered in 2011-2012)

Special emphasis is placed on Roman history, civilization, and the expansion of the Empire. Students will read selections from Cornelius Nepos, Livy, Sallust and Cicero.

532 The Silver Age and Late Latin

(to be offered in 2010-2011)

Late Latin writings in the Old and New Testament, the Carmina Burana, and other medieval texts are studied. Students will also compare the late Latin and Classical styles of writing .

542 Vergil and the Augustan Age

(to be offered in 2010-2011)

Students study the Roman epic, THE AENEID, and Augustus and the Golden Age of Rome. If time allows, students will also read Latin selections from other Golden Age poets.

552 Latin V

Credit .5 or I

Prereq: Successful completion of Latin III-IV.
Students must see instructor before signing up.
Students expand their study of Latin literature by reading a variety of Roman authors. Students will also continue their study of Latin grammar and vocabulary. Films, magazine articles and literary selections are used to further develop cultural awareness.

513 Spanish I

Credit I
Prereq: None

This introductory course in Spanish gives students the opportunity to acquire beginning skills in listening, speaking, reading, and writing. Culture and a study

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of daily life and customs of the Hispanic world are also an integral part of the course.

523 Spanish II

Credit 1

Prereq: Successful completion of Spanish I

Students continue to develop the skills of listening, speaking, reading, and writing. The vocabulary and grammar of Spanish I are reviewed. Students study additional verb tenses, grammatical structures, vocabulary, and cultural information.

533 Spanish III

Credit 1

Prereq: Successful completion of Spanish II

This proficiency-based course continues the study and application of verb tenses, grammar, vocabulary, and culture begun in Spanish I and II. Using Paso a Paso 2, students continue to develop their conversational skills as well. At this level of language study, there is an increasing emphasis on reading and writing in the target language.

543 Spanish IV

Credit 1

Prereq: Successful completion of Spanish III

Students continue to develop proficiency with an emphasis on the study of more complex language skills, such as talking about hypothetical situations, future events, and expressing wishes and obligations. The cultural focus is on South America.

553 Spanish V

Credit 1

Prereq: Successful completion of Spanish IV

Students study Spanish literature and the major Hispanic cultures in the U.S. as well as more complex language skills. Films, magazine articles and literary selections are used to further develop cultural awareness.

511 French I

Credit 1

Prereq: None

This introductory course in French gives students the opportunity to acquire basic skills in listening, reading, speaking and writing. Culture and a study of daily life and customs of the Francophone world are also an integral part of the course.

521 French II

Credit 1

Prereq: Successful completion of French I

Students thoroughly review all the basic grammar and pronunciation concepts of French I. They learn additional basic verb tenses, grammatical structures, everyday vocabulary, and practice daily conversation. French II places greater emphasis on the cultural richness of daily French life.

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53I French III

Credit 1

Prereq: Successful completion of French II

Students review basic communicative structures studied in French I and II. Emphasis is placed on narrating past events orally and in writing, as well as on describing daily activities in more detail, engaging in longer communicative exchanges, and reading a wide variety of texts and stories. Cultural focus is based on the richness of the French-speaking world.

54I French IV

Credit 1

Prereq: Successful completion of French III

The French IV curriculum includes studying of more complex language skills, discussing future events and future conditions, talking about hypothetical situations, and expressing wishes and obligations. Films and authentic texts are used as an introduction to French literature.

55I French V

Credit 1

Prereq: Successful completion of French IV; students must see instructor before signing up.

The French V curriculum includes the reinforcement of active communication skills and the further development of reading skills. Films, magazine articles, and literary selections are used to further develop cultural awareness.

(Title VI, Title IX, Section 504)

Regional School District #13 does not discriminate on the basis of race, creed, color, national origin, age, sex, marital status, or handicap in establishing and implementing hiring and employment practices and establishing and providing school activities and programs.

Each student, at the time he/she becomes eligible for participation, shall be advised of his/her right to an equal opportunity to participate in school programs without discrimination, on account of [race, color, age, marital status, sex, pregnancy, religion or national origin, ancestry, sexual orientation, past/present history of mental disorder, learning disability and/or physical disability].

It is the policy of the Regional School District #13 not to discriminate on the basis of handicap as required under Section 504 of the Rehabilitation Act of 1973 in the admission of students to programs or any educational service or in the employment of personnel. The Coordinator for Title VI and 504 activities is Amy Emory, Regional School District #13, 135A Pickett Lane, Durham, CT, 349-7208. Inquiries may be directed to the Coordinator or to the Regional Office for Civil Rights, Government Center, JFK Federal Building — Room 1875, Boston, MA 02203.

Grievance procedures are available which provide for the prompt and equitable resolution of complaints alleging violations of Title VI or Section 504. These may be obtained at the office of the Coordinators.

Compliance with Title IX

Prohibition of Discrimination on Basis of Sex in Education Program and Activities

Title IX states: “No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any education program or activities receiving federal assistance..”

Grievance procedures for students who feel that they are subject to discrimination on the basis of sex have been established and are available at the Office of the Coordinator.

Questions or concerns regarding sex discrimination should be directed to Amy Emory, Regional School District #13, 135A Pickett Lane, Durham, CT, 349-7203.

FOUR-YEAR EDUCATIONAL PLAN

GRADE 9	GRADE 10
Educational Goal:	Educational Goal:
Career Goal:	Career Goal:
Credits:	Credits:
English:	English:
Math:	Math:
Science:	Science:
Social Studies:	Social Studies:
PE/Health:	PE/Health:
World Language:	World Language:
Electives:	Electives:
Activities:	Activities:
Total Credits:	Total Credits:

