

# Course Descriptions

## ALLIED HEALTH

Allied Health is a two-year school-to-career program based upon the developmental model that encourages sequential learning. The program is offered at each of the three public high schools in Waterbury and is intended to attract interested students into allied health-related careers. Active recruitment and interviewing of prospective students is done by the teacher/coordinator. This is done to ensure that the student is fully aware of the program's requirements, regulations, and opportunities. The teacher/coordinator also works closely with the high school administration, faculty, and school counselors throughout this process. The teacher/coordinator also plans and works cooperatively with local hospitals and healthcare facilities to develop and maintain interpersonal relationships to effectively implement the program to ensure quality student outcomes.

The focus is on preparing students for allied health-related careers and stimulating an interest in furthering their education. The teacher/coordinator achieves this by assisting students in making informed and meaningful occupational and educational choices.

The program is based upon a block schedule designed to fulfill the academic requirements for graduation as well as to complete the allied health components, which include hands-on clinical training and completion of the State of Connecticut mandated skills for certified nursing assistants (CNA). Upon successful completion of the Allied Health Program and the certification exam, students will receive a nursing assistant certificate approved by the Connecticut State Department of Health, CPR certification, and first aid certification in addition to their high school diploma.

The expected outcome is that the student will not only become acquainted with a variety of healthcare specialties, but will learn workplace readiness skills, job responsibilities, the ability to work well with others, and develop habits and attitudes needed for successful employment or further education.

### **685 ALLIED HEALTH 1**

**GR: 11**

**CR: 3.00**

Allied Health 1 is based on the Connecticut certified nursing assistant required theory and skills. The students fulfill the required clinical component at St. Mary's Hospital where they complete over 100 clinical hours on the inpatient units.

**RFI • EC**

### **686 ALLIED HEALTH 2**

**GR: 12**

**CR: 3.00**

Allied Health 2 focuses on exploring medical careers and works in conjunction with St. Mary's Hospital to offer the off campus clinical internship program. The intensive 200 plus clinical hours spent in the internship provides students with hands on opportunities to hone their clinical skills as they function in a real world work environment. In addition, workplace readiness skills as well as successful employment strategies are embedded throughout the curriculum.

**RFI • EC**

## ART

### **900 FOUNDATIONS OF ART 1**

**GR: 9-12 CR: .50**

This is a basic art class that covers the elements and principles of design. Students will learn various drawing techniques to create the illusion of three dimensional spaces on a two dimensional surface using two and one point perspective and develop as well as enhance existing drawing skills so that the student can draw more realistically. This will be achieved through various mediums and values of shading in pencil and colored pencil. Ideas will be developed through primary sketches to create larger compositions. The students will learn how to mix colors using all the mediums. Various artists and works of art associated with these artists will be discussed and used as a basis for art works and projects produced in class. Students will be able to analyze and evaluate their works of art through reflection, evaluation and assessment.

**EC • EW**

### **908 FOUNDATIONS OF ART 2**

**GR: 9-12 CR: .50**

*Prerequisite: Foundations of Art 1*

Students in this advanced level class will apply the knowledge of the elements and principles of designs as well as previously developed skills to work on advanced art lessons. They will be able to identify significant artists and their art works and be able to exemplify the elements and principles of design used in their artworks as seen in other artists' paintings, drawings, sculptures, etc. They will further their skills with painting and drawing and be able to combine one, two, or more mediums to create an artwork in a successful composition. These students will also analyze and evaluate their work and that of other artists through reflection, evaluation, and assessment.

**EC • EW**

### **902 DRAWING 1**

**GR: 10-12 CR: .50**

*Prerequisite: Foundations of Art 1.*

This is a beginning drawing course that will teach the basic steps and techniques used in drawing from observation. Students will develop confidence and drawing skills to express visual facts. Emphasis will be placed on perspective and structure. This course provides an in-depth exploration of a variety of tools and materials and the time needed to refine skills. **EC • EW**

### **909 DRAWING 2**

**GR: 10-12 CR: .50**

*Prerequisite: Drawing 1.*

Students will continue to refine their drawing skills, along with the organization of 2-dimensional surfaces, through observational studies of the figure and the environment. A variety of drawing media will be used. **EC • EW**

### **904 SCULPTURE 1**

**GR: 10-12 CR: .50**

Students explore the world of three dimensional art, using various papers, cardboard, wire, clay, paper mache and plaster, etc. Students will produce several final art pieces. **EC • EW**

### **911 SCULPTURE 2**

**GR: 10-12 CR: .50**

Students advance their skills again, using various techniques and materials to make several pieces. One entire term is devoted to ceramics. **EC • EW**

## **BILINGUAL EDUCATION**

Bilingual students are serviced through sheltered content classes\* and English as a Second Language (ESL) classes, in which English is the primary language of instruction. Students are limited to 30 months in a Bilingual program by Connecticut state law. This program follows the school district's curriculum in the target and native language. Research-validated practices and strategies are used which capitalize on the students' prior knowledge, learning styles, and linguistic and cultural assets as the basis for second language acquisition. As students become more proficient in English, they are increasingly mainstreamed for their subject area courses. Students who have completed the 30 months in the Bilingual Program must exit, but may receive ESL and/or some sheltered content classes based on their needs.

### **ESL Courses**

#### **016 ESL BEGINNING**

**GR: 9-12 CR: 2.00**

Students are placed in Beginning ESL per score on the LAS (Language Assessment Scale). In this double period class students learn the rudiments of the English language to develop their skills in the speaking, listening, reading and writing of English. Students are gradually introduced to literature through the SIOP (Sheltered Instruction Observation Protocol) method to make it more accessible to them.

#### **026 ESL INTERMEDIATE**

**GR: 9-12 CR: 1.00**

Students are placed in Intermediate ESL per score on the LAS (Language Assessment Scale) test and teacher recommendation. Students continue to develop their skills in the speaking, listening, reading and writing of English. More emphasis is placed on writing skills, grammar, and reading. Longer selections are introduced, including the reading of abridged books that are part of the English/Language Arts curriculum.

#### **036 ESL ADVANCED**

**GR: 9-12 CR: 1.00**

Students are placed in Advanced ESL per score on the LAS (Language Assessment Scale) test and teacher recommendation. Advanced ESL focuses on the development of reading and writing skills in English. The English/Language Arts curriculum is followed as closely as possible, but material is presented through the SIOP (Sheltered Instruction Observation Protocol) method and at a slower pace.

#### **046 ESL ADVANCED 2**

**GR: 9-12 CR: 1.00**

Students are placed in Advanced II ESL per score on the LAS (Language Assessment Scale) test and teacher recommendation. Advanced ESL focuses on the development of reading and writing skills at a more advanced level. The English/Language Arts curriculum is followed as closely as possible, but material is presented through the SIOP (Sheltered Instruction Observation Protocol) method and at a slower pace. Students are prepared for placement into a mainstream English class for the following school year.

*\*Sheltered classes are offered in: Algebra 1, Geometry, Algebra 2, Physical Science, Biology, Human Biology, Modern World History, Civics, U.S. History 2, and U.S. History 3.*

## BUSINESS

It is the mission of the Waterbury Public Schools Business Finance and Technology Department to teach and guide all students in developing the skills, knowledge, understanding and attitudes necessary for successful participation in postsecondary education and/or employment and in their daily personal business and financial endeavors as responsible and contributing citizens of local, national, and global economies.

According to *The Princeton Review*, the #1 college major is Business Administration and Management. By participating in Business Finance and Technology courses you will develop highly valuable transferable skills needed for success in the business world. The demands of the workplace are constantly changing and students need to be prepared for a business environment that is characterized by cultural diversity both domestically and internationally. Research shows, students who think about their futures during their high school years tend to complete more years of education and earn higher salaries. Courses in the Business Finance and Technology program open up career opportunities in many occupations and prepares you for employment, career development, post-secondary educational opportunities, and lifelong learning. If your dream is to own your own business, work in the financial field, market products and services, or become a computer specialist then business is for you. **YOUR SUCCESS IS OUR BUSINESS!**

### **606 ACCOUNTING 1**

**GR: 10-12 CR: 1.00**

Provides complete coverage of service and merchandising businesses with two different types of ownership structures-proprietorships and partnerships. Each type of business is presented in a complete accounting cycle covering the analyzing of transactions into debit and credit accounts, journalizing, posting, cash control systems, financial statements and adjusting and closing entries. Accounting concepts are introduced using a modern business with owners that students can relate to in each cycle.

**RFI • EC**

### **607 ACCOUNTING 2**

**GR: 11-12 CR: 1.00**

*Prerequisite: Accounting 1.*

Begins with a business simulation in which students perform all of the tasks covered in Accounting 1. The remainder of the course is dedicated to the study of accounting tasks that must be performed by or for a corporation. The advantages and disadvantages of this type of ownership are discussed as well as a brief overview of the stock market. In Accounting 2 students perform all of the accounting tasks and activities in the accounting cycle for a corporation. During the final marking period in this course students will be introduced to an automated accounting system in which they will use their knowledge of the accounting process to record, journalize and post transactions as well as generate financial reports in a fast and effective manner. Solving problems, making decisions and reasoning effectively are used throughout this course.

**RFI • EC**

### **600 COMPUTER APPLICATIONS 1**

**GR: 9-12 CR: .50**

This half-year course is designed to provide students with the tools needed to use Microsoft Word and Google Docs to create professional-looking documents. The course begins with a review and emphasis of the proper keyboarding input technique. Students will then learn to use the Microsoft Word/Google Docs interface, commands, and features to create, enhance,

customize, share, and publish complex documents as well as collaborate on projects. By using Google Drive, students will be able to share files and folders, quickly invite others to view, download, and collaborate on all the files in their “Drive”. The course addresses the computer skills that would enhance students' academic success using the combination of both application software tools to tackle real-world challenges in school, at home, and in the workplace.

**RFI • EC**

**601 COMPUTER APPLICATIONS 2**

**GR: 9-12 CR: .50**

Students will learn the features of PowerPoint/Google Slides as a tool for creating dynamic on-screen presentations. The use of PowerPoint will allow students to build exciting interactive computer generated slide shows that students can use in presentations for classes, clubs or other activities. They will be able to execute specific tasks which will result in an improvement in their computer and communication skills. Students will also learn spreadsheets using Microsoft Excel/Google Sheets by applying their learning to hands-on activities. The students will be able to create a blank workbook, navigate a worksheet, choose themes, styles, font formats, enter formulas, create charts, insert functions, sort and filter tables, apply conditional formatting, compare and analyze data, work with graphics and link and embed data.

**RFI • EC**

**602 COMPUTER INFORMATION SYSTEMS**

**GR: 10-12 CR: 1.00**

Students will create a web site through a combination of demonstration, research, and hands-on projects: including integrating digital images, artwork, animation, sound, and video. Working both independently and collaboratively students will learn to target a specific audience and create a website experience that is entertaining, motivating, and informative. In addition students will learn database application as well as a exploration of programming and networking.

**603 INTRODUCTION TO BUSINESS**

**GR: 10-12 CR: 1.00**

*Prerequisite: Teacher Recommendation. English 9 & 10.*

Introduction to Business Presents a survey of the fundamental principles of business including the nature and environment of business. The special functions of marketing, management and accounting are considered, as well as the vital area of human resource development. With successful completion of this course, students will receive college credit from Naugatuck Valley Community College

**RFI • EC**

**604 BUSINESS MANAGEMENT 1**

**GR: 10-12 CR: 1.00**

This introductory course is intended to serve all students particularly the college-bound planning on majoring in business. Students will receive an introduction to management and leadership concepts, theory, and practice. Units of study will include managing a business, understanding economic principles, and examining how the law affects businesses and individuals. Because all students will participate in the economic system, all students need to be literate in business and economics. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.

**RFI • EC**

**605 BUSINESS MANAGEMENT 2****GR: 11-12 CR: 1.00***Prerequisite: Business Management 1.*

This course reviews and expands upon the material covered in Business Management I and introduces the students to the critical role entrepreneurs play in the national and global economy. Students gain an understanding of the business principles necessary to start and operate a business and explores the traits and characteristics of successful entrepreneurs. They will also be exposed to the unique challenges facing firms doing business internationally, and the potential opportunities available to those businesses. The material covered in the Business Management course is reinforced and enhanced through the use of technology, guest speakers, videos, and hands-on project-based activities whenever possible. In addition, because experiential learning is an important aspect of this course, a business-related field trip may also be offered.

**RFI • EC****671 PRINCIPLES OF MARKETING****GR: 11-12 CR: 1.00***Prerequisite: Introduction to Business. Teacher Recommendation. English 9 & 10.*

Principles of Marketing, deals with the marketing function of the firm primarily from the management standpoint. Topics include marketing strategy, new products, channels of distribution, pricing, and promotion. The function of the marketing institution in economic and social context is considered. With successful completion of this course, students will receive 3 college credits in business from Naugatuck Valley Community College.

**RFI • EC****673 SPORTS AND ENTERTAINMENT MARKETING GR: 10-12 CR: .50**

The sports and entertainment business industry continues to grow rapidly, requiring qualified professionals at every level to accommodate its growth. This course provides an introduction to sports and entertainment business industry career fields with an overview of the history, impact, types, and trends of events and venues, the principles of event planning, the role of venues, and career options in each field. Students taking Sports & Entertainment Business will have the opportunity to participate in the DECA organization.

**RFI • EC****674 FASHION MARKETING****GR: 10-12 CR: .50**

Fashion Marketing is designed to provide the serious fashion student knowledge of the various business functions in the fashion industry. Fashion marketing is one of the most exciting businesses in the world, representing billions of dollars in sales. The fashion business continues to grow rapidly in the United States and around the world with new opportunities. This course focuses on the world of fashion by exploring the components of fashion and why fashion has been important throughout history. Students will explore the basics of marketing fashion products and examine the wide variety of fashion businesses and why they play an important role in domestic and global economics. An emphasis will be placed on the real-world business perspective with such topics as: types of fashion and trends, creators of fashion, fashion products and research, fashion distribution, fashion pricing and technology, promoting fashion, and preparing for a career in fashion will be covered. Students taking Fashion Marketing will have the opportunity to participate in the DECA organization.

**RFI • EC**

**677 PERSONAL FINANCE****GR: 10-12 CR: 1.00**

Managing personal finances is an essential life skill in today's competitive real world. This course will emphasize how to save for the future, create a savings and spending plan (budget), maintain a checking and savings account, explore insurance options, and plan for finances after high school. Topics covered in Personal Finance include personal decision making; career planning; budgeting; investing; financing a car; using credit wisely; introduction to financial institutions; and taxes. This course will prepare students for a successful financial future.

**RFI • EC****ENGLISH****010K ENGLISH 9 HONORS SOAR****GR: 9 CR: 1.00****010 ENGLISH 9 HONORS****GR: 9 CR: 1.00****011 ENGLISH 9****GR: 9 CR: 1.00**

Emphasis is placed on developing students' ability to comprehend and analyze challenging literature, on developing students' oral and written communication skills, and on reinforcing students' organizational, study, and research skills. This course, with its student-centered approach and alternative assessment opportunities, provides an excellent transitional experience for incoming freshmen. The reading component concentrates on the characteristics of poetry and prose, fiction and nonfiction. The writing component includes a portfolio that utilizes various types of writing, e.g. response to literature and the *modes of discourse*: narration, description, exposition and persuasion. Speaking, listening, and viewing are integrated into the class expectations through the use of various media, class discussions, and oral reports. **RFI • EW**

**020K ENGLISH 10 HONORS SOAR****GR: 10 CR: 1.00****020 ENGLISH 10 HONORS****GR: 10 CR: 1.00****021 ENGLISH 10****GR: 10 CR: 1.00**

English 10 recognizes the foundation put in place by the English 9 curriculum and seeks to extend and deepen development through the study of World Literature. This course develops reading, writing, and thinking skills to help students respond on an intellectual, personal, and emotional level to literature (through the lens of life experiences). Students will practice different forms of writing and make connections between what is studied and what they have experienced, in life, literature or elsewhere. In addition to strengthening reading, writing, listening, and speaking skills, students will also be discovering personal answers to several essential questions throughout the year. **RFI • EW**

**030U AMERICAN STUDIES/UCONN****GR: 11 CR: 1.00**

American Studies is a team taught, full year course that takes an interdisciplinary approach to the study of American culture. The course rests on two main pillars, the study of United States History and American Literature. The course also integrates art, architecture, and music to help the student develop a total picture of the American Experience. The course offers a variety of teaching strategies and learning activities. Students in American Studies are assigned a double class period. After successful completion of the course, the student will have fulfilled the United States History requirement and the English 11 requirement. **RFI • EW**

**030 ENGLISH 11 HONORS****GR: 11 CR: 1.00****031 ENGLISH 11****GR: 11 CR: 1.00**

This course conceptually explores American ideals through the literature produced here, from the time of the earliest colonists to today. A wide variety of texts and film are offered to differentiate the course. Students will explore the literature through lenses such as race, class, and gender to name a few, responding through writing, discussion, and oral discourse. There is an emphasis on the cyclical process of planning, drafting, revising, editing, publishing and reflecting to make writing better.

**RFI • EW****040K ENGLISH 12 HONORS SOAR****GR: 12 CR: 1.00****040 ENGLISH 12 HONORS****GR: 12 CR: 1.00****041 ENGLISH 12****GR: 12 CR: 1.00**

This survey course extends comprehension through deep comparative and critical analyses of world literature. It culminates with the exploration of self through literature and personal essays that express high-level critical thinking. It also develops research and writing skills necessary for college acceptance and sustained post-secondary achievement. In the second semester, students may choose from concentrations in areas such as British literature, Shakespeare, poetry, minority literature, short stories, and mysteries.

**RFI • EW****030A ENGLISH LANGUAGE & COMPOSITION AP****GR: 11 CR: 1.00**

Advanced Placement English Language and Composition is intended for advanced college preparatory junior level students. It is primarily a course in both effective writing and critical reading designed to strengthen the students' skills in analyzing the reasoning and expression for ideas in prose passages. AP English Language requires students to demonstrate skill in composition through the development of various rhetorical modes. Students are able to hone their own writing skills through attentive and continued analysis of a variety of prose texts. This course prepares students for further Advanced Placement study in English Literature and Composition (senior year) as well as for college courses.

**RFI • EW****040A ENGLISH LITERATURE AP****GR: 12 CR: 1.00**

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays.

**RFI • EW****067 CREATIVE WRITING****GR: 10-12 CR: 1.00**

This course is designed to give students opportunities for creative self-expression in writing and to further their writing skills. Focus is on various types of creative writing from both poetry and prose and the development of a personal creative writing portfolio. Student writing samples may include short stories, poetry, dramatic speeches, declamations, dialogues, biographies, and autobiography.

**RFI •****EW**



**085 DRAMA 1****GR: 10-12 CR: 1.00**

Concentrated on the literary elements of the dramatic arts, this course teaches students to develop characters, adapt stories to the stage, and write and act original scenes. Performance is a requirement, building confidence and self-esteem. Writing, speaking skills, and practical self-expression skills are acquired.

**RFI • EW****086 DRAMA 2****GR: 11-12 CR: 1.00**

*Prerequisite: Drama 1*

This course continues to hone skills acquired in Drama 1, adding the art and technique of directing. Diction, projection, and elocution in speaking are practiced and studied. Playwriting becomes more complex, with emphasis on a deeper understanding of human nature through character development.

**RFI • EW****057 JOURNALISM 1****GR: 9-12 CR: 1.00**

Journalism introduces students to the field of news writing. Emphasis is given to the language particular to journalistic conventions of writing and to editing. Learning is by “doing:” students are provided with practical opportunities to explore various styles of journalistic communication, to produce articles and copy in these styles, and to experience diverse roles in the publishing process.

**RFI • EW****058 JOURNALISM 2****GR: 10-12 CR: 0.50**

*Prerequisite: Journalism 1.*

Journalism II extends the foundation of news writing skills developed in Journalism I through additional emphasis on practical newspaper production and copy editing techniques. Students will continue honing their critical thinking skills through various hands-on-exercises in reading, writing, interviewing and editing activities.

This course leads students to develop a keen sense of observation and to develop skills for effective communication through print media. Stress is placed on the reporter’s obligation for accuracy, reliability, and ethics. The course provides expanded practical writing opportunities in the aspiration for publication. Through editorial conferences, students and teachers participate in the decision-making process resulting in the design and content of publications.

**RFI • EW****059 PUBLIC SPEAKING****GR: 11-12 CR: .50**

This course provides students with an understanding, appreciation, and capacity for public speaking. Excellence in public speaking requires mastery of organization, citation of evidence, informative and persuasive techniques of language and use of introduction and conclusion elements. Exposure to theoretical elements and their application in public speaking will be explored in this class.

**RFI • EW****073 ENGLISH SAT PREP****GR: 11-12 CR: .50**

For college-bound students, a half-year course of intensive study in SAT vocabulary, reading comprehension, and the new SAT Essay. *Taken with 373 MATH SAT PREP.*

**RFI • EW**

**035 ENGLISH 11 ALLIED HEALTH****GR: 12****CR: 1.00****045 ENGLISH 12 ALLIED HEALTH****GR: 12****CR: 1.00**

These are English classes designed to stimulate interest in the allied health field. Students read and interpret literature from the core curriculum, exploring themes that connect to the world of allied health. The course meets daily for two consecutive periods over the course of three weeks, followed by three weeks of full-time job training at St. Mary's Hospital before returning to class for another three weeks.

**RFI • EW**

## FAMILY AND CONSUMER SCIENCES

**805 CLOTHING 1****GR: 9-12****CR: 1.00**

This course is a basic study of clothing and clothing construction. Students will learn a variety of topics relating to clothing and learn how to operate the sewing machine and serger. Several sewing projects will be completed throughout the year with an emphasis on quality workmanship. Students will be expected to furnish supplies.

**RFI • EW****806 CLOTHING 2****GR: 10-12****CR: 1.00**

*Prerequisite: Clothing 1.*

This course is for those students who wish to continue to learn and develop knowledge and skills related to clothing. Students will choose projects and have the opportunity to construct several projects throughout the year. Students will be expected to furnish supplies.

**RFI • EW****807 FASHION DESIGN****GR: 11-12****CR: 1.00**

*Prerequisite: Clothing 2.*

This course is for those students who are interested in the fashion or retail fields and who want to improve their skills. Projects completed will emphasize advanced clothing construction techniques. Emphasis will be on the exploration of fashion history and the fashion industry, and the application of design to clothing. Students will work independently and will be expected to furnish supplies.

**RFI • EW****821 CHILD DEVELOPMENT 1****GR: 9-12****CR: 1.00**

This course is designed to help students develop positive and realistic attitudes toward parenting and child care. Students will study the physical, emotional, social, intellectual and moral development of children from birth to age three. Discipline techniques, growth patterns, childhood nutrition, and child abuse and neglect are explored as well as an in-depth look at the careers related to the field of child care and development.

**RFI • EW****825 CHILD DEVELOPMENT 2****GR: 10-12****CR: 1.00**

*Prerequisite: Child Development 1.*

Child Development 2 is designed to expand the student's knowledge in the core concepts of child development. Students will study the intellectual, social, emotional, moral, and physical development of children from age three to twelve. The course emphasizes that development in all these areas is interrelated when dealing with the whole child. Other sections in the course will

focus on brain development, communication, and the importance of providing quality learning experiences to children. Students will also be exposed to dealing with children's disabilities, child abuse, safety and health issues, activities and the set-up of early childhood classrooms, and an introduction to child-related career options. **RFI • EW**

**822 EARLY CHILDHOOD EDUCATION 1 GR: 10-12 CR: 1.00**

*Prerequisite: Child Development I.*

With successful completion of this course, students will receive 3 college credits in Early Childhood Education from Naugatuck Community College. This course focuses on how to work with children in an educational setting concentrating on the preschool age child. Types of child care programs, developmental theories and principals, and teaching strategies are discussed along with how to enhance development through age-appropriate activities. Students are required to teach in the Eagle's Nest Preschool and interact with preschoolers as buddies and mentors.

**RFI • EW**

**826 EARLY CHILDHOOD EDUCATION 2 GR: 12 CR: 1.00**

*Prerequisite: Early Childhood Education I. Teacher Recommendation.*

This course provides students the opportunity to work with children at internship sites in the city of Waterbury for two class periods a day. It is an extension of ECE I for students who have career aspirations in Early Childhood Education. It specifically prepares students for the Child Development Associate credential (CDA) which is a national accredited program that certifies individuals for jobs in early childhood programs. **RFI • EW**

**860U INDIVIDUAL AND FAMILY DEVELOPMENT/UCONN GR: 11-12 CR: 1.00**

With successful completion of this course, students will receive 3 credits from the University of Connecticut. This is a required course for Family Studies, Nursing, and Education majors at UCONN and other colleges. Credits can also be transferred to other colleges as a Life-span Development Psychology course. This course is designed as an introduction to the field of Human Development and Family Relations. In particular, the course will focus on the developing individual within the context of the family system over the life-span from prenatal to old age and dying. Students will be required to do job shadowing and internships beyond the classroom. A college text will be used. Students must be in good standing academically to take this course. **RFI • EW**

## **HEALTH AND PHYSICAL EDUCATION**

**840 HEALTH & CONDITIONING GR: 10-12 CR: 0.50**

Health and Conditioning is a dual-purpose course in which students acquire the knowledge and skills necessary to design and execute their own personalized fitness program, while exploring contemporary issues surrounding Nutrition, Personal and Mental Health, Safety, Substance Abuse, Human Growth and Development and Family Life Education. Students will understand, compare and contrast, and then apply principles of Health and Wellness to develop decision-making skills, habits and attitudes that positively impact them physically, intellectually

and socially/emotionally. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this course of study. **RFI • CTP**

**841 COMPETITION SPORTS SKILLS GR: 10-12 CR: 0.50**

Competition Sports Skills is designed to offer a flexible menu of sports skill development activities as chosen by students, and commensurate to their motivational and skill abilities. This course puts particular emphasis on skill development activities that prepare students for interscholastic competition. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this course of study. **RFI • CTP**

**842 RECREATIONAL & LIFETIME SPORTS SKILLS GR: 10-12 CR: 0.50**

Recreational and Lifetime Sports Skills is designed to offer a flexible menu of sports skill development activities as chosen by students, and commensurate to their motivational and skill abilities. This course puts particular emphasis on recreational and lifetime activities that prepare students for social recreation. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this course of study. **RFI • CTP**

**843 GENERAL PHYSICAL EDUCATION ELECTIVE GR: 9-12 CR: 0.50**

General Physical Education Elective is designed to offer students a wide range of sports skill development activities in order to promote lifelong participation in athletic and fitness-related pursuits. Students will acquire knowledge and skills for a variety of sports and games, including rules, strategies and recreational opportunities both within school, and throughout the wider community. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this course of study. **RFI • CTP**

**847 ADVANCED BASKETBALL GR: 9-12 CR: 0.50**

Advanced Basketball is designed to offer students a highly specialized range of competitive basketball skill development activities in order to promote participation in interscholastic and/or competitive athletics. Students will acquire knowledge and practice fundamental to advanced skills of the game of basketball. This course provides effective strategies for personal conditioning and skill development drills in preparation for game play, includes direct instruction on the official NAIA basketball rule book, and promotes participation both within school, and throughout the wider community in recreational basketball opportunities. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this elective. **RFI • CTP**

**856 ADVANCED WEIGHT TRAINING & BODY SHAPING GR: 9-12 CR: 0.50**

Advanced Weight Training and Body Shaping is designed to offer students a highly specialized range of conditioning and body shaping development activities in order to promote personal conditioning. Students will acquire knowledge and practice fundamental to advanced skills for

safe and effective weight training as well as proper nutrition. This course helps students develop effective natural techniques, strategies and habits for personal conditioning leading to increased strength, muscle mass, cardiovascular endurance, flexibility, core development, increased speed and agility and prescriptive weight management. Particular emphasis on the use of natural training techniques and student avoidance of performance-enhancing products and substances to ensure long-term health and safety will be pervasive in all aspects of this course. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this elective. **RFI •**

**CTP**

**SUBSTANCE ABUSE PREVENTION MODULES 1, 2 & 3**

**CR: 0.10 each**

**861 SAP Module 1**

**862 SAP Module 2**

**863 SAP Module 3**

*Completion of eighteen (18) class sessions per year required for HS Graduation*

The S.A.P. curriculum presents the core content for Substance Abuse Prevention Education in the high school. It determines what students should know, feel, and be able to do as a result of SAP Education by the end of grade 12. The program goals, content standards, and performance standards have been adapted from national and state standards, most specifically from the Connecticut State Department of Education's *Healthy and Balanced Living Curriculum Framework*. Its purpose is to challenge and motivate students to become increasingly resistant to social influences that promote substance abuse and reinforce healthy lifestyle choices in ways that support student academic learning. SAP Education is embedded within the 840 Health and Conditioning portion of the curriculum in order to prevent curricular redundancy/overlap while satisfying Connecticut state requirements for annual Health, Safety, and SAP instruction Pre-K to 12 in the year in which the student is enrolled in 840 Health and Conditioning. Course scheduling will be accommodated through one period per week for one semester per year when student is not enrolled in 840 Health and Conditioning. **RFI • CTP**

## **MATHEMATICS**

**300K ALGEBRA 1 HONORS SOAR**

**GR: 9 CR: 1.00**

**300 ALGEBRA 1 HONORS**

**GR: 9 CR: 1.00**

This intense and accelerated course applies the tools and critical thinking skills needed to solve real world problems. The course covers all types of linear equations and inequalities, quadratic functions, exponential functions, and systems of equations. Coordinate geometry will be integrated into the investigation of these functions. Data analysis including measures of central tendency and visual representations of data are studied. An understanding of correlation and causation will be developed and reasonable lines of best fit will be used to make predictions. Students use a graphing calculator in order to stay current with modern technological trends. Content is aligned to the Connecticut Core Standards and the new SAT; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**301 ALGEBRA 1** **GR: 9** **CR: 1.00**

**301S ALGEBRA 1** **GR: 9** **CR: 1.00**

This course applies critical thinking skills needed to solve real world problems. It covers patterns and sequences, all types of linear equations and inequalities in one variable, systems of equations, quadratic functions, and an introduction to exponential functions. Coordinate geometry will be integrated into the investigation of these functions. Students learn how to use a graphing calculator in order to stay current with modern technological trends. Content is aligned to the Connecticut Core Standards and the new SAT; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**350K GEOMETRY HONORS SOAR** **GR: 10** **CR: 1.00**

**350 GEOMETRY HONORS** **GR: 10-12** **CR: 1.00**

This course offers an accelerated and in depth approach to plane, solid and coordinate geometry. Intensive investigations of basic properties, angles, triangles, polygons, parallelograms, circles, area, volume, congruence, trigonometry, and similarity are covered. Through the development of inductive/deductive reasoning and proofs students will develop their logical reasoning skills. Students will apply critical thinking skills by solving rigorous, real life problems utilizing technology. Content is aligned to the Connecticut Core Standards; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**351 GEOMETRY** **GR: 10-12** **CR: 1.00**

**351S GEOMETRY** **GR: 10-12** **CR: 1.00**

Students discover, explore and make conjectures about geometric concepts and relationships including parallelism, congruence, similarity, area, volume, trigonometry and coordinate geometry. Emphasis is placed on discovery of patterns, real life problem solving using technology, mathematical connections to other disciplines, critical thinking, reasoning, and communicating mathematics. Algebra skills are reviewed and strengthened throughout the course through the application of geometric concepts. Content is aligned to the Connecticut Core Standards; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**320K ALGEBRA 2 HONORS SOAR** **GR: 10** **CR: 1.00**

**320 ALGEBRA 2 HONORS** **GR: 10** **CR: 1.00**

*Prerequisite: Algebra 1. Teacher Recommendation.*

This rigorous, accelerated course provides students with opportunities to interpret, evaluate, and develop models that describe real-world phenomenon. Topics studied in this class include quadratic function, exponential and logarithmic functions, trigonometric functions, and polynomial functions. Advanced features of the graphing calculator are incorporated into the course work, as well as real life problem-solving and applications of Algebra 2 in various fields such as engineering and the sciences. Preparation for the SAT is an important part of Algebra 2 Honors and Algebra 2 SOAR; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**321 ALGEBRA 2** **GR: 10-12 CR: 1.00**  
**321S ALGEBRA 2** **GR: 10-12 CR: 1.00**

*Prerequisite: Successful completion of Algebra 1 with C- or better average.*

Algebra 2 continues the study of quadratic functions and introduces students to polynomial functions, logarithmic functions and trigonometric functions. Students will also study inferential statistics. Advanced features of the graphing calculator are incorporated into the course work. Real-world problem solving and applications of algebra in various fields such as engineering and the sciences are a focal point of instruction. Content is aligned to the Connecticut Core Standards and the new SAT; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended.

**EC • CTP**

**322 ALGEBRA 2 FOUNDATIONAL** **GR: 10-12 CR: 1.00**

*Prerequisite: Successful completion of Algebra 1 without averaging C- or better.*

Algebra 2 Foundational provides a review of the basic terminology, notation, concepts and applications of Algebra I. Students will engage in the study of quadratic functions and will explore polynomial functions, logarithmic functions and trigonometric functions. Real-world problem solving and applications of algebra in various fields such as engineering and the sciences are a focal point of instruction. Content is aligned to the Connecticut Core Standards and the new SAT.

**EC • CTP**

**345 PRE COLLEGE ALGEBRA** **GR: 12 CR: 1.00**

The main themes of Intermediate Algebra are functions, represented by tables, graphs, and rules, and problem solving. The study of polynomial functions is extended via applications involving linear functions, linear systems, and quadratic functions. Students also study exponential functions, rational functions, radical functions, and absolute value functions. Computer component required; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. This may be used as a general elective.

**EC • CTP**

**370K PRE-CALCULUS SOAR** **GR: 11-12 CR: 1.00**

**370 PRE-CALCULUS HONORS** **GR: 11-12 CR: 1.00**

*Prerequisite: Algebra 2. Teacher Recommendation.*

This course provides algebraic and graphical explorations of polynomial, rational, exponential, logarithmic, and inverse functions with real life applications. In addition, trigonometric functions are studied as circular functions with applications to triangle problems. Topics include trigonometric identities, inverse trigonometric functions and oblique triangle trigonometry. Limits and sequences and series will be introduced if time permits. Extensive use of the graphing calculator will assist the student in a balanced approach to solving problems; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended.

**EC • CTP**

**371 PRE-CALCULUS** **GR: 11-12 CR: 1.00**

*Prerequisite: Algebra 2.*

This course is designed to provide a strong foundation of pre-calculus concepts, techniques, and applications to prepare students for more advanced work. It places appropriate emphasis on discrete mathematics and data analysis as the mathematical framework for many important contemporary applications. Units covered include polynomial, rational, exponential, logarithmic and inverse functions, graphs, and applications, trigonometry, and discrete mathematics. Extensive use of the graphing calculator will assist the student in a balanced approach to solving problems; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended.

**EC • CTP**

**394 STATISTICS**  
**.50**

**GR: 12 CR:**

This course provides for the collection, organization, classification, analysis, interpretation and presentation of significant data as a basis of the study of events. Using real data-based applications taken from a variety of journals, newspapers and other sources, students will develop skills to comprehend problems that describe situations to which techniques and the mechanics may be applied. Extensive use of algebraic skills and the graphing calculator will be applied throughout the course; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. *Taken with 393*

**EC • CTP**

**393 TRIGONOMETRY**

**GR: 12 CR: .50**

This course is a rigorous one for students needing further study prior to taking Pre-calculus and will focus on function theory, right triangle trigonometric functions and applications; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. *Taken with 394*

**EC • CTP**

**380A CALCULUS AB AP**

**GR: 12 CR: 1.00**

This course includes the in depth study of functions, analysis of graphs, limits, continuity; derivatives at a point and of functions, second derivatives and applications and computation of derivatives: interpretations and properties of definite integrals, applications of integrals, including volumes of solids of revolution, disks, and washer; the approximations to definite integrals. All topics are covered algebraically, geometrically, and analytically. Students are required to take the Advanced Placement examination in May and may receive college credit for one semester of calculus; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended.

**EC • CTP**

**385A CALCULUS BC AP**

**GR: 12 CR: 1.00**

This course includes the study of topics in all Calculus AB AP plus studies of parametric, polar and vector functions; applications of integrals; polynomial approximations and series including the concepts of series, divergence versus convergence and types of series, series of constants, and Taylor/Maclaurin series. Students are required to take the Advanced Placement examination in May and may receive college credit for up to two semesters of Calculus; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended.

**EC • CTP**

**394A STATISTICS AP**

**GR: 12 CR: 1.00**



The course is equivalent to a one-semester college course in statistics. Students will be introduced to the major concepts for collecting, analyzing, and drawing conclusions from data. Topics also include sampling and experimentation. Students are required to take the Advanced Placement examination in May and may receive college credit based on their score; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. **EC • CTP**

**373 MATH SAT PREP**

**GR: 11-12 CR: .50**

This is a half-year course that reviews test-taking strategies and problem solving techniques, and encourages both long-term and short-term preparation for the SAT and other standardized assessments. Tips on improving computational and reasoning skills are included. Practice sessions guide students to a better understanding of the problems that commonly appear on the SAT and related tests. The graphing calculator is used throughout the course; TI-83 (Plus) or TI-84 (Plus) or online graphing utility strongly recommended. *Taken with 073 ENGLISH SAT PREP.* **EC • CTP**

## MUSIC

**917 CONCERT BAND**

**GR: 9- 12 CR: 1.00**

This course is designed for musicians of all ability levels (beginner to advanced) to learn and perform High quality Concert Band Literature within a large ensemble setting. Students will develop technical ability as well as overall musicality and musical understanding. Instruments include, but are not limited to: Flute, Trumpet, Trombone, Euphonium, Tuba, Percussion and all varieties of Clarinets and Saxophones. **RFI • CTP**

**928 VOCAL ENSEMBLE**

**GR: 9-12 CR: 1.00**

Students learn to sing various styles of choral compositions ranging from classical through the modern composer. Basic vocal skills along with theory and harmony are taught in relation to the singing material used. This is a performance based group. (No musical background is required.) **RFI • CTP**

**919 GUITAR**

**GR: 9-12 CR: 1.00**

This course is available to students of all ability levels. Students learn how to read and perform standard music notation, as well as how to read and perform chords. This course progress from basic fundamental skills to performing blues scales, improvisation and barre chords. **RFI • CTP**

**922 MUSIC THEORY**

**GR: 10-12 CR: 1.00**

This course provides students with an understanding of the construction of music. Previous musical theory training is not required to complete this class. Students will learn written music fundamentals and definitions, as well as aural training and melodic and harmonic construction. Students will learn how to create their own music through the study of classical and modern music literature. **RFI • CTP**

**923 PERCUSSION**

**GR: 9-12 CR: 1.00**

Students will study a wide array of percussion performance styles including: Concert Percussion, Marching Percussion and Non-Traditional Percussion. Students will have the opportunity to learn performance techniques on multiple percussion instruments including: Snare Drum, Bass Drum, Mallets Percussion, Timpani and Accessory Percussion. **RFI • CTP**

**921 PIANO LABORATORY**

**GR: 9-12 CR:1.00**

The Piano Laboratory class is for the student who has had no previous piano training. Piano technique and music reading are the emphasized skills. Theory, dictation, and composition are included. **RFI • CTP**

**SCIENCE**

**430 PHYSICAL SCIENCE HONORS**

**GR: 9 CR: 1.00**

Designed for the high achieving student, this course offers an examination of earth science, chemistry, and physics. Analytical skills including the scientific method, measurement, and data analysis are developed. Problem solving, experimentation, and research skills are emphasized. **RFI • CTP**

**431 PHYSICAL SCIENCE**

**GR: 9 CR: 1.00**

**431S PHYSICAL SCIENCE**

**GR: 9 CR: 1.00**

This course provides a broad overview of earth science, chemistry, and physics. Analytical skills including the scientific method, measurement, and data analysis are developed. This course is intended to serve college-bound students. **RFI • CTP**

**400A BIOLOGY AP**

**GR: 11-12 CR: 1.20**

This course provides a thorough and advanced study of biological principles and concepts at the college freshman level. Students must be highly motivated, and competent in scientific experimentation and research. College credit may be awarded to students who successfully pass the Advanced Placement test given in May by the College Board. Availability of this and other AP courses in a given year depends on student enrollment. **RFI • CTP**

**400K BIOLOGY HONORS SOAR**

**GR: 9 CR: 1.20**

This course explores biological science through extensive use of laboratory exercises designed to promote laboratory skills such as use of the scientific method, data collection and analysis, and formulation of conclusions based on available data. Computers are used in class for data gathering and analysis, preparation of reports, and Internet research. The depth of the course includes molecular and cellular biology, heredity, ecology, evolution, and human body systems. A two-period lab is included each week. **RFI • CTP**

**400 BIOLOGY HONORS**

**GR: 10 CR: 1.20**

Honors Biology is oriented toward laboratory investigation, the use of technology, and the development of higher level thinking skills. Fundamental biological concepts are developed

through inquiry and problem solving. The curriculum emphasizes the cellular level of life forms, as well as heredity and evolution. A two period lab is included each week. **RFI • CTP**

**401 BIOLOGY**

**GR: 10 CR: 1.20**

**401S BIOLOGY**

**GR: 10 CR: 1.20**

Biology examines the basis for life including genetics, cellular function, and biochemistry. Scientific skills are developed including prediction, data collection, analysis, and reasoning. The course is geared to the college-bound student. A two-period lab is included each week.

**RFI • CTP**

**420A CHEMISTRY AP**

**GR: 11-12 CR: 1.20**

AP Chemistry is for high achieving students interested in exploring chemistry concepts in greater depth and complexity. These concepts include the structure and states of matter, intermolecular forces and reactions. You will work in groups to think analytically about problems, identify experimental questions, and design experiments to answer those questions. A two-period lab is included. College credit may be awarded to students who successfully pass the Advanced Placement test given in May. Availability of this and other AP courses in a given year depends on student enrollment.

**RFI • CTP**

**420K CHEMISTRY HONORS SOAR**

**GR: 10 CR: 1.20**

This is an advanced level chemistry course open only to students enrolled in the SOAR program. Topics are covered in depth with emphasis on the quantitative aspects of inorganic chemistry. These topics include quantum chemistry, chemical reactions, stoichiometry, gas laws, and solution chemistry. Problem-solving and critical thinking skills are further developed. The course includes a two-period laboratory.

**RFI • CTP**

**420 CHEMISTRY HONORS**

**GR: 11 CR: 1.20**

Designed for the high achieving student, honors chemistry explores a wide range of chemistry topics, including atomic structure, periodicity, chemical reactions, gas laws, and stoichiometry. Emphasis is on problem solving and laboratory inquiry. The course includes a two-period laboratory.

**RFI • CTP**

**421 CHEMISTRY**

**GR: 11 CR: 1.20**

Chemistry explores the structure of elements, compounds, and mixtures, and the chemical reactions they undergo. Emphasis is placed on chemical theories that are substantiated by experimentation in the laboratory. Hands-on activities and demonstrations are used to show applications of chemistry to everyday life. A two-period laboratory is included.

**RFI • CTP**

**450A PHYSICS AP**

**GR: 11-12 CR: 1.20**

This course provides a thorough and advanced study of principles and concepts of physics at the college freshman level. Students must be highly motivated and competent in scientific

experimentation and research. College credit may be awarded to students who successfully pass the AP Physics test given in May by the College Board. Availability of this and other AP courses in a given year depends on student enrollment. **RFI • CTP**

**450K PHYSICS HONORS SOAR**

**GR: 11-12 CR: 1.20**

Physics SOAR provides a challenging and in-depth examination of mechanics, thermodynamics, sound waves, light waves, electricity, sound, and magnetism. In each area, quantitative problem solving is emphasized. The course is designed for highly motivated students with strong science and math backgrounds. A two-period laboratory is included. **RFI • CTP**

**450 PHYSICS HONORS**

**GR: 12 CR: 1.20**

This course is for students capable of moving at a fast pace and exploring concepts in depth. The student should possess well developed analytic and quantitative skills. Topics include motion, thermal energy, electricity, sound, and magnetism. A two-period laboratory is included. **RFI • CTP**

**451 PHYSICS**

**GR: 12 CR: 1.20**

Physics presents a quantitative treatment of energy, mechanics, light, sound, electricity, and magnetism. While a prerequisite for college and most technical careers, it is also geared to meet the needs of the general students. A two-period laboratory is included. **RFI • CTP**

**411X HUMAN BIOLOGY**

**GR: 11-12 CR: 1.00**

**411S HUMAN BIOLOGY**

**GR: 11-12 CR: 1.00**

An introduction and survey of human anatomy and function including the digestive, circulatory, respiratory, immune, urinary, nervous, sensory, muscular, skeletal, endocrine, and reproductive systems of the body. The course has a two-period lab that features dissections of animal organs/systems, internet research, and lab simulations. Alternate laboratory assignments are available for students who elect not to dissect animal organs/systems. **RFI • CTP**

**446 FORENSICS**

**GR: 11-12 CR: 1.00**

Forensics is a full year course offering a hands-on, problem-solving approach to crime scene investigation. The course provides a broad survey of techniques used to distinguish and categorize the physical and chemical evidence found at a crime scene. Activities include crime scene sketching and analysis of fingerprints, handwriting, impressions and DNA. Forensics does not include a double lab period. **RFI • CTP**

**457 METEOROLOGY**

**GR: 11-12 CR: .50**

This is a one semester course offered in the fall for any student interested in weather-related phenomenon. The course offers a broad survey of weather maps, the atmosphere, cloud types, precipitation patterns, frontal boundaries, air masses, and storms. If you ever wanted to know how weather predictions are made, this course is for you. This course does not include a double lab period. *Taken with 458 Introduction to Astronomy* **RFI • CTP**

**458 ASTRONOMY**

**GR: 11-12 CR: .50**

This is a one semester project-based course offered in the spring. The course not only offers a broad survey of the composition of our solar system including the sun, the planets, moons, comets, asteroids and belts, it focuses on the importance of understanding space through time. Views of ancient civilizations, the development of modern astronomy, as well as past, present and future space missions are explored. This course does not include a double lab period. *Taken with 457 Introduction to Meteorology* **RFI • CTP**

**459 ZOOLOGY**

**GR: 11-12 CR: 1.0**

This full year course is oriented toward students who enjoy biology and hands-on investigation. It examines the anatomy and physiology of invertebrates and vertebrates, from both the ocean and land. You will investigate invertebrates such as protozoans, sponges, jellyfish, mollusks, echinoderms and arthropods. On the vertebrate side, you will learn about cold-blooded and warm-blooded animals from bony fish to mammals. Activities include microscopic examination, lab simulations and dissections. Alternate laboratory assignments are provided for students who elect not to dissect invertebrates. This course does not include a double lab period.

**RFI • CTP**

**445 ENVIRONMENTAL SCIENCE**

**GR: 10-12 CR: 1.00**

This full year course is an exploration of scientific principles underlying today's environmental issues. The earth's geologic history, oceans, atmosphere, soils, biomes including rainforests, and human population are studied. The course also examines the science behind pollution, climate change, and energy consumption. Outdoor and hands-on activities will be emphasized. The course perspective will be political and social, as well as scientific. Environmental Science does not include a double lab period.

**RFI • CTP**

**480 MARINE BIOLOGY**

**GR: 11-12 CR: 1.00**

This course introduces students to marine invertebrate organisms. Students will investigate the evolutionary relationships and ecology of these organisms. Physiology, cell biology, embryology, and behavior are also examined. Students will gain an appreciation of the tremendous diversity in form and function of these fascinating organisms. This course does not have a two-period lab.

**RFI • CTP**

**415 ANATOMY & PHYSIOLOGY**

**GR: 11-12 CR: 1.00**

Taken only by students in the Allied Health Program, this course focuses on the structure and function of the human organism. Classroom instruction is closely related to the students' clinical experience. The class meets for two periods each day for three weeks. The next three week cycle is spent at the hospital, where students are given the opportunity to apply their knowledge in the allied health services. *Offered alternate years*

**RFI • CTP**

**425 CHEMISTRY**

**GR: 11-12 CR: 1.00**

Taken only by students in the Allied Health Program, this course covers the principles of chemistry using a conceptual and qualitative approach. This is a course specifically for students interested in preparing for careers in the field of allied health. The students meet for two periods

a day over a three week period, and then spend the following three weeks gaining clinical experience. *Offered alternate years* **RFI • CTP**

**445A ENVIRONMENTAL SCIENCE AP** **GR: 11-12** **CR: 1.20**  
 AP Environmental Science is designed for highly interested students who otherwise might not take an AP course. Topics include water quality, air pollution, population growth, alternative energy, global warming, and recycling. Outdoor activities and field studies are emphasized. Students must intend on taking the AP test, and may receive up to one semester college credit. A two-period lab is included. Availability of this and other advanced placement courses in a given year depends on student enrollment. **RFI • CTP**

### SOCIAL STUDIES

**570K MODERN WORLD HISTORY HONORS SOAR** **GR: 9** **CR: 1.00**  
**570 MODERN WORLD HISTORY HONORS** **GR: 9** **CR: 1.00**  
**571 MODERN WORLD HISTORY** **GR: 9** **CR: 1.00**  
**571S MODERN WORLD HISTORY** **GR: 9** **CR: 1.00**

This course will focus on the 19th and 20th century beginning with the philosophical roots of economic and political conflict of the late 18th century. This will explore the impact of democratic and industrial revolutions, the wars that changed empires and the European dominance of the world, as well as, the ideas that lead to independence movements and the effects of global interdependence. Students in this course will continue to develop their historical thinking skills from previous years by emphasizing such skill areas as argumentative writing, oral communication, and evaluation of primary and secondary sources, map analysis, research techniques, and critical thinking dispositions. **RFI • EW**

**530K CIVICS HONORS SOAR** **GR: 10** **CR: .50**  
**530 CIVICS HONORS** **GR: 10** **CR: .50**  
**531 CIVICS** **GR: 10** **CR: .50**  
**531S CIVICS** **GR: 10** **CR: .50**

This course will cover the development of democratic within the context of the United States government and the role of citizens within that government. It will prepare students to participate in their political responsibilities as thoughtful and informed citizens. Civics provides a basis for understanding the rights and responsibilities for being an American citizen and a framework for competent and responsible participation within society. Emphasis is placed on the historical development of government and political systems, and the importance of the rule of law; the United States Constitution; Federal, State and local government structure; and the rights and responsibilities of citizenship. Students will actively investigate local, state and national issues, actively negotiate discussions, and develop informed arguments using a variety of writing forms. **RFI • EW**

**540K UNITED STATES HISTORY 2 HONORS SOAR** **GR:10** **CR:**  
**.50**  
**540 UNITED STATES HISTORY 2 HONORS** **GR: 10** **CR: .50**

**541 UNITED STATES HISTORY 2 GR: 10 CR: .50**  
**541S UNITED STATES HISTORY 2 GR: 10 CR: .50**

This course will take an in-depth look at the domestic and foreign policies that divided the United States leading it from Civil War to a newly industrialized nation. Students will analyze primary and secondary sources in order to interpret historical viewpoints, research important people and events in an effort to determine their significance, and evaluate the government's failures and success based on legislation and executive orders from the time. **RFI • EW**

**550 UNITED STATES HISTORY 3 HONORS GR: 11 CR: 1.00**  
**551 UNITED STATES HISTORY 3 GR: 11 CR: 1.00**  
**551S UNITED STATES HISTORY 3 GR: 11 CR: 1.00**

U.S. History III is a mandatory course for all juniors. The course begins with the American Progressive Era and leads up to the present day. Topics will cover the social, cultural, political, military, and economic transformations of nineteenth century America. Typical course activities include analyzing primary and secondary sources, class debates, research into historical events of significance, and creation of argumentative writings. **RFI • EW**

**580A EUROPEAN HISTORY AP GR: 10 CR: 1.00**

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May. **RFI • EW**

**550A U.S. HISTORY AP GR: 11 CR:1.00**

The course provides students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. It prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. College credits are awarded to students who successfully pass the Advanced Placement U.S. History Examination given in May by the College Board. Credits are accepted by over 1,200 colleges and universities in the U.S. and Europe. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May. **RFI • EW**

**550U AMERICAN STUDIES/U.S. HISTORY/UCONN GR:11**  
**CR:1.00**

American Studies is a team taught, full year course that takes an interdisciplinary approach to the study of American culture. The course rests on two main pillars, the study of United States

History and American Literature. The course also integrates art, architecture, and music to help the student develop a total picture of the American Experience. The course offers a variety of teaching strategies and learning activities. Students in American Studies are assigned a double class period. After successful completion of the course, the student will have fulfilled the United States History requirement and the junior year American Literature requirement. **RFI • EW**

**544A PSYCHOLOGY AP**

**GR:12 CR: 1.00**

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

**RFI •**

**EW**

**585 AFRICAN-AMERICAN HISTORY**

**GR: 12 CR: 1.00**

African-American history is a course which surveys selected major aspects of the African-American experience from its African origins to the present. While much of the African-American experience is that of racism and oppression, the course seeks to emphasize the contributions of African-Americans to the American way of life.

**RFI • EW**

**504 COMPARATIVE GOVERNMENT**

**GR: 12 CR:1.00**

Emphasis is placed on the structure of the local, state and national governments, the goals of democratic society, and the prime role of the good citizen in an era of challenge. To appreciate the government of the United States, comparisons are made with selected major political systems throughout the world.

**RFI • EW**

**505 GEOGRAPHY**

**GR: 12 CR: .50**

Geography introduces students to the environmental factors that have so greatly influenced man. Studies are made on a regional basis and include a systematic approach to the physical, economic and cultural changes which help man satisfy his needs.

**RFI • EW**

**521 CONTEMPORARY ISSUES**

**GR: 12 CR: .50**

Through discussion, this course focuses on the long-range problems of society as well as controversial issues of the day. Opportunity for understanding current affairs is also provided. Students will be encouraged to pursue individual topics of interest.

**RFI • EW**

**525 LAW & SOCIETY**

**GR: 12 CR: .50**

This course stresses the importance of law in our society to better enable the student to function as a citizen. An overview of the Anglo-American Legal System, the development and growth of the U. S. Constitution, and the salient features of American Criminal and Civil Laws are presented in this course.

**RFI • EW**

**545 SOCIOLOGY**

**GR: 12 CR: .50**

This course provides insights into human relations by incorporating characteristics that are common to groups, races, and cultures. Emphasis is on the problems approach and attempts are



made to reduce narrow-mindedness and prejudice by promoting better understanding of inter-group relations. **RFI • EW**

**546 PSYCHOLOGY**

**GR: 12 CR: .50**

This course is designed to develop student interest in human behavioral patterns by learning fundamentals of psychological study. Further development of concentrated study will include the understanding of personality traits, the role of heredity and environment and their consequences on the intelligent world community. **RFI • EW**

**530A UNITED STATES GOVERNMENT & POLITICS AP GR: 12 CR: .50**

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. In addition to providing an analytical perspective on government in the United States, this course focuses in on the six major categories assessed on the U.S. Government and Politics' AP exam. These categories include: The Constitutional Underpinnings of United States Government, Political Beliefs and Behaviors, Political Parties, Interest Groups and Mass Media, Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal Courts, Public Policy and Civil Rights and Civil Liberties. College credit can be earned by students who successfully pass the Advanced Placement Examination which they are required to take in May. **RFI • EW**

**591A COMPARATIVE GOVERNMENT & POLITICS AP GR: 12 CR:1.00**

This course introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course covers six specific countries and their governments. College credit can be earned by students who successfully pass the Advanced Placement Examination which they are required to take in May. **RFI • EW**

## **SPECIAL EDUCATION**

Kennedy High School provides a full continuum of special education services designed to meet the needs of students with identified disabilities. Students are eligible for special education when specific testing and student response to research-based interventions document how the student's disability adversely affects academic performance and cannot be corrected without special education and/or related services. Through an Individualized Education Plan (IEP), students have the opportunities to reach their full potential in the least restrictive environment (LRE) possible.

Additionally, speech and language services are available for students who may experience communication impairments. These services involve student observations and evaluations, consultations with staff and parents, and student therapy. Communication impairments may be divided into the following five categories: language impairment, articulation impairment, fluency impairment, voice impairment, and hearing impairment. Under the Individuals with Disabilities Act (IDEA), when a communication impairment adversely affects educational performance it is considered a communication disability. The student then qualifies for special education speech and language services

Special education service delivery models include, but are not limited to:

- ***Co-Teaching:*** An approach that facilitates the inclusion of students who have disabilities in the general education classroom. The two teachers involved, usually a general education teacher and a special education teacher, work together to develop a differentiated curriculum that meets the needs of a diverse population of students.
- ***Supported Instruction:*** An approach delivered in the classroom when a paraprofessional assists students in the general education classroom. Paraprofessionals are utilized in a variety of situations to support student learning.
- ***IWE (Independent Work Experience):*** junior and senior special education students gain independent, hands-on work experience while developing employment skills necessary to be successful in an entry-level position.
- ***CBT (Community Based Training):*** Students, along with a certified teacher and paraprofessional, rotate work sites highlighted each marking period. Students perform tasks in small clusters emphasizing appropriate work attitudes, social skills and problem-solving skills.
- ***BDLC (Behavior Disorder Learning Center):*** Specialized, self-contained instruction for students with behavioral needs.
- ***Resource classes:*** Small-group specialized instruction determined by IEP. *English Resource 1 and 2, Math Resource 1 and 2, Resource Room Study, Read 180, Science Resource, Biology Resource, World History Resource, Roots of American Citizenship/US History 1 Resource, US History 2 Resource, Life Skills 1 and 2*

## TECHNOLOGY EDUCATION

### 796 PRINCIPLES OF TECHNOLOGY

GR: 9-12 CR: 1.00

This course will provide students with opportunities to develop an understanding of technology in the past, present, and future. Technological skills in the areas of systems, materials, construction, communication and transportation will be attained. Career exploration through mentors, field trips and written activities will increase awareness of opportunities in high technology fields. This is an activity-based course, which provides students with experiences in the application of technology, and an understanding of its impact on the individual and society. It focuses on the study of technology. Technical careers are explored. Mentors from industry come in and participate in the class activities and discuss careers with the students. Students are

actively involved in projects that use computers, tools, materials, problem solving skills, and the design process. The effect of technology on the individual and society is discussed. The course makes technology “user friendly” for both male and female students. **CTP • EC**

**750 CONSTRUCTION 1 GR: 9-12 CR: 1.00**

The construction system course provides students with a working understanding of the key elements associated with designing, planning, and constructing a structure on-site. Students learn major concepts through hands-on activities, using contemporary construction tools and materials. Activities involve a variety of types of construction, such as commercial and residential buildings, bridges, and other structures including cabinets and furniture. Emphasis is placed on student understanding of major concepts associated with each main content element as well as interrelationship of management and production elements. The content and activities are inclusive of the Connecticut Career Clusters of Construction: Technologies and Design and Technologies: Manufacturing, Communications, and Repair. **CTP • EC**

**751 CONSTRUCTION 2 GR: 10-12 CR: 1.00**

*Prerequisite: Construction 1*

This course is a continuation of the Construction 1 course. Opportunities are provided for individual studies as well as group activities such as shed construction. Emphasis will be directed toward gaining modern concepts of wood technology with emphasis on carpentry and construction, cabinetmaking, furniture construction and wood finishing. Students will also have the opportunity to experiment with a variety of wood-related products in wide use today and to explore the many career opportunities in the wood-related field. **CTP • EC**

**755 ADVANCED CONSTRUCTION GR: 11-12 CR: 2.00**

*Prerequisite: Construction 1 and 2, Teacher Recommendation*

Advanced Construction will expand upon the depth of content in understanding built in Construction 1 and 2 as well as introduce more complex contents as noted in the topic listing. The woodworking production system will provide students with valuable insight into wood/cellulose manufacturing industry and the production of articles from these products. Learning experiences will include design, construction, production, safe operation of industrial woodworking tools and machinery, wood machining, and finishing. **CTP • EC**

**720 GRAPHIC COMMUNICATIONS 1 GR: 9-12 CR: 1.00**

Graphic Communications is a course of study of the processes used in the graphic communication profession. It is the exchange of information in a visual form, such as words, drawings, photographs, or a combination of these in both printed and electronic form. Students will learn computer applications, the use of varied equipment, and they will incorporate the use of the Internet as a resource in their projects. **CTP • EC**

**722 GRAPHIC COMMUNICATIONS 2 GR: 10-12 CR: 1.00**

*Prerequisite: Graphic Communications*

Students receive more advanced instruction in desktop publishing and offset printing, including job planning and layout. Students will study web design, web page development and manage a school website. They will learn job related skills in this industry through hands-on activities that

print items for the school. Students will explore career opportunities in the printing and graphic fields.

**CTP • EC**

**727 VIDEO PRODUCTION 1**

**GR: 9-12 CR: 1.00**

Video Production 1 is designed to introduce students to the use of video production technology. The course will focus on the use of cameras and related equipment to produce live and scripted video and to solve technical problems associated with the production process. Through the use of our studio and its equipment, we will develop skills involved in the various roles associated with a video production studio. We will also be involved in maintaining the proper and continuous broadcasting of video on the local education channel via cable. The editing process will incorporate many current techniques employed in both digital and linear modes. The emphasis is on technical skills and the various employability skills associated with such an interactive production atmosphere.

**CTP • EC**

**728 VIDEO PRODUCTION 2**

**GR: 10-12 CR: 1.00**

*Prerequisite: Video Production 1*

In Video Production 2, students continue the technical and script writing skills learned in Video Production 1 and Media Communications. Students produce the principal's weekly show shown on the local educational channel.

**CTP • EC**

**706 ARCHITECTURAL CAD 1**

**GR: 9-12 CR: 1.00**

This course introduces students to the basic drafting techniques, building codes, and conventions used in producing architectural drawings. Students produce both CAD and board drafting and models of architectural subjects. Emphasis is placed on the planning and specifications of structures in light of their intended functions, and the characteristics of their component parts.

**CTP • EC**

**707 ARCHITECTURAL CAD 2**

**GR: 10-12 CR: 1.00**

*Prerequisite: Architectural CAD 1*

This course builds upon the experience in Architectural CAD 1. Students will address the more advanced concepts of design, structural efficiency, and aesthetics. These concepts will be incorporated into student-constructed scale models and computer assisted drawings. This course may be elected repeatedly with emphasis on individual research and advanced projects.

**CTP • EC**

**704 MECHANICAL CAD 1**

**GR: 9-12 CR: 1.00**

With the explosion of technology as we view it today, an understanding of moving from idea to product is essential. In drafting the student is introduced to concepts as they relate to the four technologies. Within each aspect the student will be guided through instruction, demonstration, hands-on activities and problem solving techniques. Computer Aided Design (CAD) will be introduced. CAD is the organized use of a computer, monitor, input device, and CAD software to perform drafting and design tasks. These tasks can range from simple and repetitive to the complex. Since all drafting skills can be reduced to the use of lines, arcs, points, symbols, and text, most CAD systems deal with these primitives and the many ways of grouping, reusing, and manipulating these items. The primitives are used to create more complex drawings through the

use of any number of input devices to form the drawing on the screen. Through the use of the software, the drawing can be modified, stored, or dumped to a plotter to produce a hard copy.

**CTP • EC**

**705 MECHANICAL CAD 2**

**GR: 10-12 CR: 1.00**

*Prerequisite: Mechanical CAD 1*

Mechanical CAD 2 will expand upon the depth of content in understanding built in Mechanical CAD 1 as well as introduce more complex construction as noted in the topic listing.

**CTP • EC**

**710 ELECTRONICS**

**GR: 9-12 CR: 1.00**

The field of electronics employs more people worldwide than any other area. The role of electronics in business, industry, education, medicine, and virtually all other fields of endeavor is increasing dramatically and will most probably continue to do so in the foreseeable future. This course begins with an introduction to electricity and moves to electronics, both analog and digital.

**CTP • EC**

**740 AUTOMOTIVE TECHNOLOGY 1**

**GR: 9-12 CR: 1.00**

This course covers the theory behind an internal combustion engine. Students will learn this theory and apply it to the disassembly, cleaning, stripping, painting, repair, and reassembly of a small 4-stroke-cycle engine. Basic tool skills, personal responsibility, positive attitude, and lab safety will be stressed.

**CTP • EC**

**741 AUTOMOTIVE TECHNOLOGY 2**

**GR: 10-12 CR: 1.00**

*Prerequisite: Automotive Technology 1*

Automotive Technology 2 continues with the learning concepts from Automotive 1 and builds upon the skills needed to keep current in the automotive industry. Students will continue to develop knowledge of the different transportation systems and learn through hands-on activities how to use different automobile equipment in repairing automobiles.

**CTP • EC**

**745 ADV. AUTOMOTIVE TECHNOLOGY**

**GR: 11-12 CR: 2.00**

*Prerequisite: Automotive Technology 1 and 2, Teacher Recommendation*

Advanced Automotive Technology will expand upon the depth of the content in understanding built in Automotive 1 and 2 as well as introduce more complex contents as noted in the topic listing.

**CTP • EC**

## **WORLD LANGUAGES**

**211 ITALIAN 1**

**GR: 9-12 CR: 1.00**

This course offers the basic elements of grammar, pronunciation, and simple conversation with some reading and writing; practice in easy conversation with emphasis on oral repetition; drill in pronunciation and development of a basic vocabulary; introduction to essential construction and patterns.

**EW • EC**

**221 ITALIAN 2****GR: 10-12 CR: 1.00***Prerequisite: Italian 1*

Students concentrate on the study of grammar, pronunciation, basic speech patterns, reading and writing. Attention is given to the four fundamental language skills: listening, speaking, reading, and writing Italian; introduction to Italian geography, history, literature, culture and civilization.

**EW • EC****235 ITALIAN 3****GR: 11-12 CR: 1.00***Prerequisite: Italian 2*

The third year student continues to develop the four fundamental skills approach integrated with a thorough review of the essential grammar; intensive practice in aural comprehension and speech patterns; more reading and some composition. Continued interest in culture and civilization is stressed.

**EW • EC****245 ITALIAN 4****GR: 12 CR: 1.00***Prerequisite: Italian 3*

With stress on comprehension, the student is now involved with more advanced reading and more practice in writing. Knowledge of Italian writers, artists, musicians, scientists and historical personages is encouraged through research projects.

**EW • EC****245U ITALIAN 4/UCONN****GR: 12 CR:1.00***Prerequisite: Italian 3*

With stress on comprehension, the student is now involved with more advanced reading and writing. Knowledge of Italian writers, artists, musicians, scientists, and historical personages is encouraged through research projects.

**EW • EC****251 SPANISH 1****GR: 9-12 CR: 1.00**

The object of this course is to give the student a working command of basic speech patterns, vocabulary, and comprehension through the learning of everyday idioms. The emphasis is on listening and speaking with some reading and writing. Interest is stimulated through independent projects and an introduction to Spanish history and civilization.

**EW • EC****261 SPANISH 2****GR: 10-12 CR: 1.00***Prerequisite: Spanish 1*

This course concentrates on structure and sound, with special emphasis on grammar. It is designed to achieve proficiency in reading and writing. It also includes discussion of culture and the geographical areas where Spanish is spoken.

**EW • EC****275 SPANISH 3****GR: 11-12 CR: 1.00***Prerequisite: Spanish 2*

This course consists mainly of review of grammar, graded compositions with emphasis on oral and on comprehension, extensive reading; individual projects directed toward reading proficiency and vocabulary growth. **EW • EC**

**285 SPANISH 4**

**GR: 12**

**CR: 1.00**

*Prerequisite: Spanish 3*

Extensive reading in class, outside assignments of selected classics and advanced composition using stylistic analysis of texts of note. Spanish authors are emphasized. **EW • EC**

**2**

**85A SPANISH AP**

**GR: 12**

**CR: 1.00**

*Prerequisite: Spanish 3*

AP Spanish explores the prose, poetry and drama of the great Spanish authors from the Golden Age to the Modern Age. Particular emphasis is placed on literary criticism and oral expression in the language. The course is specifically designed to prepare students for college study of Spanish. College credits are awarded to students who successfully pass the Advanced Placement Spanish examination given in May by the College Board. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May. **EW • EC**

**256 SPANISH NATIVE SPEAKERS**

**GR: 9-12**

**CR: 1.00**

This course will challenge advanced speakers of Spanish. It is intended to provide fine tuning of reading and writing skills of native and fluent Spanish speakers, and is geared to-but not limited to-native speakers. Candidates must have a firm grasp (fluency) of spoken Spanish. **EW • EC**

**School-wide rubrics are used to measure student achievement of learning expectations and provide feedback to guide student progress. A commitment is made in each course to assess student progress in regards to school-wide expectation and this is reflected in each of the above course descriptions.**

**EC = Effective Communicator**

**EW= Effective Writing**

**RFI = Reading For and Gathering Information**

**CTP = Critical Thinking and Problem Solving**