

# Alphabetical Listing of Course Descriptions

## 3-D DESIGN

CRS 01130 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Art 1*

This course is a combination of Ceramics and Sculpture and may be taken two times for two credits. Students who take this course will learn to make three-dimensional objects. A variety of clay hand building techniques and sculptural techniques including modeling, carving and construction will be covered. Students are expected to plan their projects, practice techniques, and help recycle clay and care for the studio. Materials used may include clay, wire, plaster and paper mache, etc. Study of historic sculpture and sculptors are introduced when appropriate. Students who take this course are required to develop original ideas and to do homework regularly.

## ACCOUNTING 1

CRS 02125 Grades 10-12 CR 1 S 1 block  
Accounting 1 provides an understanding of the accounting cycle from recording business transactions through the preparation of financial statements. Simulated financial activities are included. Students interested in pursuing careers in business administration or management should enroll in accounting.

## ACCOUNTING 2 ENR

CRS 02127 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Accounting 1 and teacher recommendation.*

The second year of accounting expands upon basic accounting principles and covers payroll, depreciation, notes receivable and payable, inventories, and investments. Students will utilize the computer to record journal transactions, prepare financial statements, and complete simulations concerning the accounting cycle. Greater emphasis will be placed on the analysis and interpretation of financial reporting. **Note: This is a Running Start Course and students are eligible to receive college credit.**

## ADVANCED CARDIO-FITNESS

CRS 11364 Grade 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: 77 or better in Fundamental PE*

This advanced level course will include both an aerobic component (i.e. cardio 3 days/week) and a weight training component (2 days/week). Students will learn fitness fundamentals that will enable them to design individualized aerobic and weight training programs. Students in this course will exercise strenuously to improve their present fitness level. **Note: Students must see PE Teacher to sign-up for this course.**

## ADVANCED CONDITIONING

CRS 11360 Grade 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: 77 or better in Fundamental PE*

This course includes a weight training component (3 times/week) in combination with an aerobic/anaerobic activity (2 times/week). Students will pick up where Freshmen P.E. left off and delve into more in-depth theories involved in designing an individualized program. Students in this course will exercise strenuously to improve their present fitness level. **Note: Students must see PE Teacher to sign-up for this course.**

## ADVANCED MATH ENR

CRS 08328 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: 77 average in Trigonometry ENR*

This course stresses a functions approach and the use of graphing calculators. Topics include the graphs and transformations of polynomial functions theory of equations,

analysis of elementary functions, exponential functions, logarithmic functions, conic sections, probability and combinatorics, matrices, vectors, and sequence and series. This course completes the foundation for the study of Calculus ENR. **Note: Upon completion of this course, students are prepared to take the SAT Subject Test level II-C.**

## ADVANCED MATH H

CRS 08330 Grade 11-12 CR 1 S 1 block  
*PREREQUISITE: 77 average in Trigonometry Honors or recommendation of the Trigonometry ENR teacher.*

This course stresses a functions approach and the use of graphing calculators. Topics include the graphs and transformations of polynomial functions, analysis of elementary functions, exponential functions, logarithmic functions, conic sections, probability, combinatorics, sequence and series, matrices and vectors. This course provides a foundation for the study of Calculus. **Note: Upon completion of this course, students are prepared to take the SAT Subject Test level II-C**

## ADVENTURE CHALLENGE

CRS 11361 Grade 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: 77 or better in Fundamental PE*

Adventure Challenge is designed for students to push themselves beyond preconceived limits and develop a new self-confidence. Initiatives, problem solving activities, and advanced climbing techniques will be covered. Students will be expected to do presentations and group projects as part of their leadership development. Students will also keep a journal of their daily class experiences and prepare several written assignments to fulfill course requirements. **Note: Students must see PE Teacher to sign-up for this course.**

## ALGEBRA 1A ENR

CRS 08312 Grade 9 CR 1 S 1 block  
*PREREQUISITE: Recommendation of 8th grade math teacher.*

This course is the first half of Algebra 1. Applications, equations and graphs are emphasized. Topics include: connections to algebra, properties of real numbers, solving linear equations, graphing linear equations and functions, writing linear equations, and solving and graphing linear inequalities. **Note: This course is currently offered at the Rochester Middle School. Students receiving a 70-76 in Algebra 1A ENR are advised to elect Math Conn 1B.**

## ALGEBRA 1B ENR

CRS 08295 Grades 9-10 CR 1 S 1 block  
*PREREQUISITE: Recommendation of 8th grade math teacher or a 77 average in Algebra 1-A ENR.*

This course is the second half of Algebra 1. Applications, equations and graphs are emphasized. Topics include: systems of linear equations and inequalities, exponents and exponential functions, quadratic equations and functions, polynomials and factoring, radicals, connections to geometry, counting, probability, right triangle trigonometry and graph analysis. **Note: Students are recommended for Algebra 1 B ENR by their eighth grade math teacher after successful completion of Algebra 1A ENR. Students earning a 70-76 in Algebra 1 B ENR are advised to elect Math Conn 2A.**

## ALGEBRA 1 H

CRS 08284 Grade 9 CR 1 S 1 block  
*PREREQUISITE: Recommendation of 8th grade math teacher.*

This course is an integrated approach to Algebra 1. Structure and method are emphasized. Topics include: equations and inequalities, factoring, linear systems of equations, irrational numbers, quadratic equations, the

Cartesian plane and an introduction to probability and statistics. **Note: Students are recommended for Algebra 1 H and Geometry H by their eighth grade math teacher after successful completion of Algebra 1A ENR. Both courses should be elected in the freshman year.**

## ALGEBRA 2 ENR

CRS 08314 Grades 10-11 CR 1 S 1 block  
*PREREQUISITE: 77 average in both Geometry ENR and Algebra 1-B ENR.*

This course emphasizes the use of graphing calculators. Topics include properties and structure of the complex number system, solution of first and second degree equations and inequalities, factoring, polynomial operations, systems of equations and inequalities, rational and irrational numbers, quadratic theory, functions, matrices, polynomial, exponential and logarithmic equations. **Note: Students receiving a 70-76 in Algebra 2 ENR are advised to elect Math Conn 3A.**

## ALGEBRA 2 H

CRS 08316 Grades: 10 CR 1 S 1 block  
*PREREQUISITE: 77 average in Algebra 1 H and Geometry H*

Topics include: properties and structure of the complex number system, solution of first and second degree equations and inequalities, factoring, polynomial operations, systems of equations and inequalities, rational and irrational numbers, quadratic theory, functions, variation, logarithms, sequences and series, binomial expansion, and theory of equations. **Note: Algebra 2 H is the prerequisite for Trigonometry H.**

## AM. GOV/PAC LAW & THE ADOLESCENT

CRS 13394 Grade 11-12 CR 1 S 1 block

As young citizens soon to take an active part in their communities, students must have an understanding of the basic principles of our government and our political processes and of the responsibilities and opportunities of citizens. This course includes a study of the structure and functions of each level of government and the functions and responsibilities of our state and municipal officials. The second half of this course is designed to provide juniors and seniors with practical information and problem solving opportunities that help develop the knowledge and skills necessary for survival in our law-saturated society. The curriculum includes case studies, mock trials, role-plays, small group exercises, guest speakers. **Note: This class will fulfill the civics requirement for graduation.**

## AM. GOV/PAC LAW & THE ADOLESCENT ENR

CRS 13396 Grade 11-12 CR 1 S 1 block  
*PREREQUISITE: C or better in US History*

The purpose of this course is to provide students with the knowledge and skills necessary for good citizenship and to help them develop important reasoning and participation skills. By pursuing these competencies (basic knowledge, reasoning skills, and participation training) this course endeavors to promote more effective citizenship. Students learn about functions of state and local government and the roles and responsibilities of various government officials. The second half of this course is designed to provide juniors and seniors with practical information and problem solving opportunities that help develop the knowledge and skills necessary for survival in our law-saturated society. The curriculum includes case studies, mock trials, role-plays, small group exercises, guest speakers. **Note: This class will fulfill the civics requirement for graduation.**

## ANATOMY AND PHYSIOLOGY ENR

CRS 12383 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: B in Biology*

This course provides an in-depth study of how the body maintains homeostasis. The structure and function of various body systems are explored from the cellular level to the organism as a whole. Lab simulations, virtual dissections, and guest speakers from the medical community enrich the student's understanding of the human body. *Note: This class will fulfill the third science requirement for graduation.*

## ANIMAL SCIENCE 1

CRS 14502 Grade 11 CR 2 Y block/year

Location: Dover

*PREREQUISITE: Career and Technical Education application required.*

This program is designed to provide students with the knowledge and skills needed for employment in the area of animal sales, veterinary assistance, grooming and animal care. Students will learn about the health, nutrition, breeding and handling of large and small animals. *Note: This class will fulfill the third science requirement for graduation.*

## ANIMAL SCIENCE 2

CRS 14553 Grade 12 CR 2 Y block/year

Location: Dover

*PREREQUISITE: Career and Technical Education application required, and successful completion of Animal Science 1.*

This program is designed to provide students with the knowledge and skills needed for employment in the area of animal sales, veterinary assistance, grooming and animal care. During the double period block, students learn about the health, nutrition, breeding and handling of large and small animals.

## ARCHITECTURAL & ENGINEERING TECHNOLOGY 1

CRS 14514 Grade 11 CR 2 Y block/year

*PREREQUISITE: Career and Technical Education application required.*

During the first year students in the Technical Drafting program learn basic drafting techniques as they apply to industry. The course provides instruction in both the architectural and machine design fields. A hands-on approach to computer aided drafting (CAD) is emphasized. During the second year students choose either architectural or machine design, and they receive more in-depth interaction and training to develop more advanced drafting skills. Individual design projects reflect students' career goals. Further instruction in computer aided drafting (CAD) techniques is included. *Note: This class will fulfill the fine arts requirement for graduation.*

## ARCHITECTURAL & ENGINEERING TECHNOLOGY 2

CRS 14515 Grade 12 CR 2 Y block/year

*PREREQUISITE: Career and Technical Education application required, and successful completion of Architectural & Engineering Technology 1.*

During the first year students in the Technical Drafting program learn basic drafting techniques as they apply to industry. The course provides instruction in both the architectural and machine design fields. A hands-on approach to computer aided drafting (CAD) is emphasized. During the second year students choose either architectural or machine design, and they receive more in-depth interaction and training to develop more advanced drafting skills. Individual design projects reflect students' career goals. Further instruction in computer aided drafting (CAD) techniques is included. *Note: This is a Running Start Course and students are eligible to receive college credit.*

## ART 1

CRS 01105 Grades 9-12 CR 1 S 1 block

This is a beginning course which includes study of the basic elements of Art: line, color, shape/form, pattern/texture, space and value. Students develop drawing and designing skills and they experience various techniques in the areas of drawing, painting, sculpture, printmaking and ceramics. Students are expected to develop original ideas and to do homework regularly. *Note: This class will fulfill the fine arts requirement for graduation.*

## ART 2

CRS 01106 Grades 9-12 CR 1 S 1 block

*PREREQUISITE: Art 1*

This is a continuation and expansion of Art 1 skills, media and techniques. The following areas are included: drawing and painting, printmaking, three-dimensional design and ceramics. Students are expected to develop original ideas and to do homework regularly.

## ART 3

CRS 01110 Grades 10-12 CR 1 S 1 block

*PREREQUISITE: Art 2*

This is an in-depth experience in the four major art areas: drawing and painting, printmaking, three-dimensional design and ceramics. Students are expected to develop original ideas and to do homework regularly.

## ART 3 HONORS

CRS 01109 Grades 10-12 CR 1 S 1 block

*PREREQUISITE: Art 1 & Art 2, teacher recommendation.*

This course is for students with exceptional ability and a creative attitude. Students must be recommended by an art teacher to take this course. The direction of the course is partially determined by the interests of the group, and it may include experiences in drawing, painting, sculpture, photography, printmaking, and ceramics. Students are expected to prepare and maintain a portfolio which may be used to meet entrance requirements for possible admission to college art departments. Students are expected to develop original ideas and to do homework regularly.

## ART 4

CRS 01112 Grades 10-12 CR 1 S 1 block

*PREREQUISITE: Art 3*

This is a continuing, in-depth art experience which focuses on the use and development of art skills learned in Art 1, 2 and 3. Projects are selected from the major art areas: drawing and painting, sculpture, printmaking and ceramics. Students are expected to develop original ideas and to do homework regularly.

## ART 4 HONORS

CRS 01111 Grades 10-12 CR 1 S 1 block

*PREREQUISITE: Art 3 Honors, teacher recommendation.*

This course is for students with exceptional ability and a creative attitude. Students must be recommended by an art teacher to take this course. The direction of the course is partially determined by the interests of the group and it may include experiences in drawing, painting, sculpture, photography, printmaking, and ceramics. Students are expected to prepare and maintain a portfolio which can be used to meet entrance requirements for possible admission to college art departments. Students are expected to develop original ideas and to do homework regularly.

## ART STUDIO ART 2-D DESIGN AP

CRS 01101 Grades 10-12 CR 2 Y 1 block

*PREREQUISITE: Art teacher recommendation.*

Design involves purposeful decision-making about using the elements and principles of art in an integrative way. In the 2-D Design Portfolio, students should demonstrate their understanding of design principles as applied to a two-dimensional surface. The principles of design

(unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) can be articulated through the visual elements (line, shape, color, value, texture, space). Any 2-D process or medium may be submitted, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc. Videotapes, three-dimensional works, and photocopies of student work in other media may not be submitted.

## ART STUDIO ART 3-D DESIGN AP

CRS 01125 Grades 10-12 CR 2 Y 1 block

*PREREQUISITE: Art teacher recommendation.*

Design involves purposeful decision-making about using the elements and principles of art in an integrative way. In the 3-D design Portfolio, students should demonstrate their understanding of design principles as they relate to depth and space. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) can be articulated through the visual elements (mass, volume, color/light, form, plane, line, texture). These issues can be explored through additive, subtractive, and/or fabrication processes. Examples of approaches include figurative or nonfigurative sculpture, architectural models, metal work, ceramics, and three-dimensional fiber arts, among others.

## ART STUDIO ART DRAWING AP

CRS 01129 Grades 10-12 CR 2 Y 1 block

*PREREQUISITE: Art teacher recommendation.*

In the Drawing Portfolio, mastery of drawing can be demonstrated through a wide range of approaches and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and the illusion of depth are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and inventive works may be submitted. The range of marks used to make drawings, the arrangement of the marks, and the materials used to make the marks are endless. Photography, digital imaging, videotapes, three-dimensional work, and photocopies of student work in other media may not be submitted.

## AS 100 - JOURNEY INTO AVIATION HISTORY

CRS 12101 Grades 9-12 CR 1 S 1 block

This course is a blend of aerospace history, initial leadership education, drill, and fitness. The aerospace science portion covers flight history beginning with ancient civilizations and progresses through modern times. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rocketry. The leadership education portion covers Air Force organizational structure, uniform wear, customs, courtesies, and other military traditions. This course is eligible for two college elective credits with an overall grade of "B" or better. *Note: This course is offered every other academic year starting in an even year (2010, 2012, etc.).*

## AS 200 - INTERNATIONAL & CULTURAL STUDIES

CRS 12106 Grades 9-12 CR 1 S 1 block

This course is a blend of global studies, leadership, drill, and fitness. The global studies portion introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs, understanding other cultures, and America's interest and role in the world. The leadership portion uses the Unlocking Your Potential series to offer students the thought processes and techniques required to achieve their full potential in all areas of their lives. This course is eligible for two college elective credits with an overall grade of "B" or better. *Note: This course is offered every other academic year starting in an odd year (2009, 2011, etc.).*

### AS 210 - FLIGHT SCIENCE

CRS 12102 Grades 9-12 CR 1 S 1 block  
This course is a blend of the aerospace environment, leadership, drill, and fitness. Aerospace topics include the theory of aircraft flight, weather, human physiology, and navigation. Students participate in hands-on aviation related activities including use of a flight simulator and model rocketry. The leadership portion emphasizes the development of communication skills and drill proficiency. This course is eligible for two college elective credits with an overall grade of "B" or better. Combining this course with AS 300 satisfies graduation requirements for the third science credit (students must still take Integrated Science and Biology).

### AS 300 - SPACE EXPLORATION

CRS 12123 Grades 9-12 CR 1 S 1 block  
This course is a blend of space science, leadership, drill, and fitness. The space portion covers the science of the Universe, our Solar System, studies in astronomy, and the science and physics of space missions. Leadership education consists of finance, career exploration, and college/employment application processes. This course is eligible for two college elective credits with an overall grade of "B" or better. Combining this course with AS 210 satisfies graduation requirements for the third science credit (students must still take Integrated Science and Biology).

### AS 400 - ORGANIZATION AND MANAGEMENT

CRS 12122 Grade 11-12 CR 1 S 1 block  
**PREREQUISITE:** Successful completion of two JROTC courses.

The cadets manage the Cadet Corps during this course. This hands-on experience affords the cadets the opportunity to put the theories of previous aerospace leadership courses into practice. All the planning, organizing, coordinating, directing, controlling and decision-making will be done by the cadets. They practice their communication, decision-making, personal interaction, and managerial and organizational skills. Military drill and fitness continue. This course is eligible for two college elective credits with an overall grade of "B" or better.

### AS 460 - DRILL & CEREMONY

CRS 12108 Grades 10-12 CR 1 S 1 block  
**PREREQUISITE:** Successful completion of one JROTC course. Students must be enrolled in any other AFJROTC course during the school year.

This course concentrates on the elements of military drill, and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades, and development of command voice. Students also learn leadership and teamwork throughout the course and serve as the basis for JROTC competition drill teams. Students may take this course two times for credit. During AS 460A, students practice the fundamentals of drill and learn to follow the direction of others. Cadets enrolled as AS 460B students will train as leaders and commanders during all aspects of drill and ceremony training.

### AS 500 - AVIATION GROUND SCHOOL

CRS 12110 Grades 11-12 CR 1 S 1 block  
**PREREQUISITE:** Successful completion of two years in JROTC and AS-210 with grade of "B" or better.

This course is an in-depth continuation of the AS-210 Flight Science Course and fulfills all of the Federal Aviation Administration (FAA) ground training requirements for a private pilot certificate. Students will study aircraft systems, aerodynamics, meteorology, flight physiology, and aerial charts and navigation. Additionally, students will explore careers in the aviation industry. Students have the opportunity to take control of a Cessna 172 during an orientation flight originating out of Skyhaven Airport. Military drill and fitness continue during this course.

### AUTO COLLISION 1

CRS 14503 Grade 11 CR 2 Y block/year  
Location: Dover  
**PREREQUISITE:** Career and Technical Education application required.

This course is designed to familiarize the student with basic entry-level skills. Topics include body construction, welding, panel alignment, metal finishing and an introduction to estimating. Special problems found in restoration work will be explored. Work ethics and safety will be emphasized.

### AUTO COLLISION 2

CRS 14504 Grade 12 CR 2 Y block/year  
Location: Dover  
**PREREQUISITE:** Career and Technical Education application required, and successful completion of Auto Collision 1.

This course is designed for the student who has a definite career interest in automotive body repair. Building on the skills and knowledge acquired in Automotive Body Repair 1, the student will develop skills in collision damage repair. Utilizing damaged vehicles, students will be exposed to the techniques of repairing bolted panels, fiberglass and urethane components, estimates and frame alignment. The latest painting and finishing techniques will be presented.

### AUTOMOTIVE TECHNOLOGY 1

CRS 14505 Grade 11 CR 2 Y 1 block  
**PREREQUISITE:** Career and Technical Education application required.

Auto Technology 1 is the first year of a two year program. It is generally taken during a student's junior year. The purpose of this course is to train future technicians in the fundamentals of automotive theory, maintenance, diagnosis and repair in the NATEF areas studied. During this course, students will learn about tools, fasteners, engine design and theory, steering and suspension, brakes, electrical/electronics and engine performance. Students will have the opportunity to reinforce theory with hands-on experiences.

### AUTOMOTIVE TECHNOLOGY 2

CRS 14506 Grade 12 CR 2 Y 1 block  
**PREREQUISITE:** Career and Technical Education application required, and successful completion of Auto Technology 1.

Auto Trades 2 is the second year of a two year program. It is usually taken during a student's senior year. The purpose of this course is to train future technicians in the fundamentals of automotive theory, maintenance, diagnosis and repair in the NATEF areas studied. During this course students will learn more in-depth topics relating to the ASE areas of brakes, steering and suspension, electrical and electronics, and engine performance. Students will have the opportunity to reinforce theory with hands-on experiences. **Note: This is a Running Start Course and students are eligible to receive college credit.**

### BAND

CRS 10345 Grades 9-12 CR 1 Y mini block  
**PREREQUISITE:** Permission of instructor.

The Spaulding High School Band performs at school football games, athletic events, various holiday parades, and other local and out of state functions. The concert band, marching band, jazz band, and other small pep bands perform an average of 40 performances each year. Past performances have taken place at the Statue of Liberty, at Disney World, Disney Land, at Shea Stadium for the New York Mets, at the NHIS Sprint Cup Races, and for Presidents Bill Clinton and George Bush as well as Vice President Al Gore. The band performed in January of

2005 at President George W. Bush's Inauguration. The band most recently performed for Barack Obama in October 2008. For students to receive full credit for band, they must participate in all extracurricular and academic activities. **Note: This class will fulfill the fine arts requirement for graduation.**

### BANKING FUNDAMENTALS

CRS 02265 Grade 11-12 CR 1 S 1 block  
**PREREQUISITE:** Career and Technical Education application required, two teacher recommendations, and interview with instructor. Students must have a minimum GPA of 2.25.

The HRCU Branch is opened to the school as well as the public providing an excellent opportunity for "hands-on" learning and exposure to all aspects of banking. Professional dress and appearance will be required. Students will be trained as professional HRCU tellers and will experience all activities of working a teller window. They will learn how to handle cash, balance their cash drawers, be familiar with HRCU's products and services, Federal Regulations, credit union structure and history, negotiable instruments, counterfeit currency, professionalism, and gain personal financial knowledge. There will be job shadow days to the Brock Street Branch and other departments. Guest lectures will be delivered by the President, members of the Board of Directors, and other HRCU employees.

**Note: All students will be interviewed by the manager of the Spaulding Branch of Holy Rosary Credit Union and will be accepted into the class upon the manager's approval. The student's history of grades, behavior, and attendance will also be reviewed.**

**To become a Finance completer:** Students must earn a minimum grade of 85 in these courses: Bookkeeping/Accounting, Economics, Personal Finance, Money & Banking, Computers and/or Business Management.

### BIOLOGY

CRS 12380 Grade 10 CR 1 S 1 block  
This course presents concepts of the living world and the relationship of living things to each other. Students will use their understanding of biological concepts to address important issues of present day society. Scientific inquiry and investigation will be developed through laboratory work. The lab work will help students to become aware of career options within the life sciences. **Note: This class will fulfill the biology requirement for graduation.**

### BIOLOGY AP

CRS 12399 Grades 11-12 CR 2 Y 1 block  
**PREREQUISITE:** B or better in Biology Honors

This course is designed for students who desire a rigorous study of biology and who may be interested in pursuing a college major in the biological sciences. Topics covered include molecular biology, genetics, physiology, ecology and behavior. Students who plan to take Honors Chemistry and Honors Physics are recommended to take this course. You will be expected to take the AP exam at the end of the course. **Note: This class will fulfill the biology requirement for graduation.**

### BIOLOGY ENR

CRS 12379 Grade 10 Cr 1 S 1 block  
**PREREQUISITE:** Recommended by previous science teacher.

This course presents the fundamentals of biology. Emphasis is placed on work in the laboratory because curiosity is a critical attribute of scientists. Use of living materials, individual study and field work are highlighted in this course, which also creates an awareness of career options in the life sciences. **Note: This class will fulfill the biology requirement for graduation.**

## BIOLOGY HONORS

CRS 12370 Grades 10 CR 1 S 1 block  
*PREREQUISITE: Recommended by previous science teacher.*

This course is designed for students who desire a rigorous study of biology and who may be interested in pursuing a college major in the biological sciences. Topics covered include molecular biology, genetics, physiology, ecology and behavior. A research paper is required. *Note: This class will fulfill the biology requirement for graduation.*

## BOOKKEEPING 1

CRS 02122 Grades 9-12 CR 1 S 1 block  
This course is designed to give students a basic idea of the practice and procedures involved in financial record keeping. Topics covered include: basic record keeping, budget, credit, cash receipts, checking accounts, petty cash, and sales records. Students will also develop and use record keeping for accounts receivable clerks.

## BOOKKEEPING 2

CRS 02123 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Successful completion of Bookkeeping 1.*

This course is designed to continue topics in the practice and procedures involved in financial small business recordkeeping, financial statements and payroll. A four-week bookkeeping activity will be an important component of this class.

## BUILDING TRADES/CONSTRUCTION 1

CRS 14551 Grade 11 CR 2 Y block/year  
Location: Somersworth, Dover  
*PREREQUISITE: Career and Technical Education application required.*

Are you ready to go into the construction trades? Do you like the outdoors? Are you interested in carpentry, cabinet making, electricity, plumbing, heating and masonry? Would you like to design your own home? Can you make general repairs around your house? This course is designed to acquaint students with the fundamentals of wood frame construction through lab and classroom instruction. Students develop proficiency in the use of hand tools, power tools, machinery and equipment used in the carpentry trade. Units taught include machine operation, safety, blueprint reading, construction and estimating.

## BUILDING TRADES/CONSTRUCTION 2

CRS 14552 Grade 12 CR 2 Y block/year  
Location: Somersworth, Dover  
*PREREQUISITE: Career and Technical Education application required, and successful completion of Building Trades 1.*

Second year students use the lab as the classroom. Students construct a single family home or similar structure. Areas of instruction include site development and layout, rough framing and interior and exterior work.

## BUSINESS AND PERSONAL LAW

CRS 02129 Grades: 11-12 CR 1 S 1 block  
Students will be provided with a basic understanding of our court system, civil and criminal procedures and business/consumer law. Students will study the history and development of contract law and how it enforces promises that individuals make. Students will discuss law-related current events researched in newspapers, magazines, and/or the Internet. Cooperative learning activities are used to examine our individual rights under the Constitution of the United States. Real cases are reviewed and analyzed. A mock trial simulation prepared by the NH Bar Association will be planned and presented by the class.

## BUSINESS MANAGEMENT 1

CRS 02144 Grade 11-12 CR 1 S 1 block  
This course is designed to prepare students for the business world. During the first year, students will enhance their computer skills through practical business applications. They will alternate through various positions while developing telephone, calculator, filing, and communication skills. They will also develop and improve management techniques by conducting staff meetings, learning about various management styles and further develop teamwork skills and organizational skills. Career planning, creating an effective resume, and interviewing skills will be a final product of this course.

## BUSINESS MGMT. 2 - HUMAN RELATIONS ENR

CRS 02145 Grade 12 CR 1 S 1 block  
*PREREQUISITE: Career and Technical Education application required and Business Mgmt. 1.*  
*Offered - Semester 1 only*

Students will continue to develop teamwork skills and management skills as they rotate through various activities in an office setting. They will compose business letters, research companies on line, and create a company newsletter. In addition, they will use workplace simulations and develop human relations presentations that are designed to build a solid foundation in the business world. Extensive use of the computer using an Intranet system will provide the technical skills necessary to compete in an interactive workplace. An 8-10 hour clinical experience will provide students an opportunity to job shadow at a local business. Career development and interviewing skills will be addressed in greater depth.

## BUSINESS MGMT. 2 – SIMULATION ENR

CRS 02146 Grade 12 CR 1 S 1 block  
*PREREQUISITE: Career and Technical Education application required and Business Mgmt. 1. Offered - Semester 2 only*

Students will organize and operate their own independent insurance agency through the InVest Program and become acquainted with new positions found in a typical insurance company. The positions include Underwriter, policy generator, accountant, office manager, claims adjuster, and banker. Use of a computer program such as QuickBooks Pro will allow students the opportunity to actually set up company books, track expenses, and analyze their business net worth. In addition, student will enhance their computer and desktop publishing skills in order to design their own letterheads, business cards, brochures, and business plan. Leadership skills and human relations skills will be further developed through cooperative learning activities.

## CALCULUS AP

CRS 08324 Grades 12 CR 1 S 1 block  
*PREREQUISITE: 77 average in both Trigonometry H and Advanced Math H.*

Advanced Placement Calculus is a nationally standardized course. Spaulding High School strictly adheres to the College Board AP Calculus AB syllabus. The AP Calculus AB exam is taken in May (a fee is required for the exam). Topics include: analysis of graphs, limits of functions, asymptotic and unbounded behavior, continuity as a property of functions, concept of the derivative, derivative at a point, derivative as a function, second derivatives, applications of derivatives, computation of derivatives, interpretations and properties of definite integrals, applications of integrals, fundamental theorem of calculus, techniques of antidifferentiation, applications of antidifferentiation, and numerical approximations to definite integrals. The Calculus is approached from numerical, graphical and symbolic points of view.

## CALCULUS ENR

CRS 08320 Grade 12 CR 1 S 1 block  
*PREREQUISITE: 77 average in Advanced Math ENR and Trigonometry ENR.*

This course is an introduction to calculus. Topics covered include the concept of a limit, computing limits, the derivative, applications of the derivative, the integral, and applications of the integral. Successful students receive a credit awarded by GBCC (Great Bay Community College) transferable to other colleges such as UNH. This course covers the topics included in Calculus 425 offered at the University of New Hampshire. *Note: This is a Running Start Course and students are eligible to receive college credit.*

## CAR CARE & MAINTENANCE

CRS 07249 Grade 10-12 CR 1/2 Q 1 block  
Ladies and gentlemen, start your engines! Do you want to save money by learning the skills necessary to perform basic maintenance on your own car? Is a hands-on learning environment right for you? If so, sign up for Car Care & Maintenance! Car Care & Maintenance is a beginner level automotive class focused on automotive theory, maintenance and safety. Through classroom lecture and hands-on practice in the automotive lab, you will learn basic automotive skills as well as industry-specific operations. Whether you want to pursue a career in automotive or try something new, this class will help you become more knowledgeable in the field.

## CAREER EDUCATION

CRS 16802 Grade 9 CR 1/2 Q 1 block  
Career Education is intended to ease the transition from middle school to high school. This course is also designed to familiarize students with Spaulding High School and the wide variety of courses and co-curricular activities offered. Students will be provided with an introduction to the skills necessary for a successful career at SHS. Character development will be addressed as well as personal values, traits, strengths and weaknesses, and interests while developing critical thinking skills. Students will participate in career exploration and interview skills will be practiced. Student work will be compiled in a portfolio throughout the quarter. Ultimately, students will receive instruction that will enable them to make appropriate choices for future growth in high school and beyond.

## CAREER INTERNSHIP

Grades 10-12 CR 1/2 Q or 1 S Time Variable  
*PREREQUISITE: Meet with the School-to-Career Coordinator, in the Career Support Center, to complete the enrollment process. See School-to-Career Coordinator early Q-4 to sign-up for Summer or Q-1 internships.*

Through the Career Internship Program, students have the opportunity to:

- Test a work environment.
- Develop or improve skills.
- Apply knowledge and skills in a real-world setting.
- Develop confidence in working with colleagues of different ages and educational level.
- Gain professional experience.

The Career Internship is a work-based situation which allows a student real work experience in conjunction with a faculty advisor, a work-site mentor, and the SHS School-to-Career Coordinator. Internships are designed to launch students into a career field that they are considering and are offered in many different ways. They can be taken for a quarter at a time and may be continued for a semester, a full year, or in the summer. Transportation to and from the worksite must be arranged by the student and parent/guardian.

## CHEMISTRY

CRS 12384 Grade 11 CR 1 S 1 block  
**PREREQUISITE:** *C or better in Math Connections A & B.*  
This course uses laboratory and classroom activities to study the structure of matter and the changes it can undergo. This course lays a strong foundation in the basic principles of chemistry for the student who seeks a general knowledge of chemistry. Topics include atomic structure, the periodic table, chemical formulas and reactions, and phases of matter. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## CHEMISTRY ENR

CRS 12385 Grade 11 CR 1 S 1 block  
**PREREQUISITE:** *C or better in ENR Algebra 1A&B and 10th grade science teacher recommendation.*  
Chemistry has solutions to help satisfy students' curiosity about the environment and it offers opportunities for students to consider intellectually challenging questions about the behavior of matter. After acquiring basic laboratory techniques, students study and perform experiments to help them understand, quantitatively and qualitatively, atomic structure and chemical change. This course emphasizes laboratory applications and the development of independent thinking. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## CHEMISTRY HONORS

CRS 12386 Grade 11 CR 1 S 1 block  
**PREREQUISITE:** *B or better in current math course.*  
This course studies the same topics as ENR chemistry at a faster pace. Students are required to conduct an independent research project and present their research to the public at the end of the second semester. Students are expected to be independent thinkers, excel in problem solving and able to work independently. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## CHILD DEVELOPMENT

CRS 06230 Grades: 10-12 CR 1 S 1 block  
**PREREQUISITE:** *Must have passing grade in "Health".*  
Learn how life begins and follow the physical, emotional, social and intellectual development of a child through infancy. Students will be introduced to several child development theorists and their contributions to the study of child development. Other topics covered will be the family structure, heredity and birth defects, conception and prenatal development, labor and birth, the newborn and infant development. Students may also be given the opportunity to take home the "baby simulator".

## CHILDREN'S LITERATURE

CRS 03179 Grades: 10-12 CR 1 S 1 block  
This course is a survey of reading material for the preschooler. We read and evaluate books daily. Topics include nursery rhymes, alphabet and counting books, the picture book genre, traditional myths, folktales and fairy tales as well as children's classics such as *Charlotte's Web*. Outside reading is required and students should be able to visit the public library weekly to complete annotated bibliography cards. Oral presentations and group projects are an integral part of the curriculum. This class would be beneficial to those interested in working with young children or in developing a basic parenting skill.

## CHORUS

CRS 10350 Grades 9-12 CR 1 Y mini block  
The Spaulding High School Chorus is open to all students grades 9-12. Previous singing experience is recommended but not required. The chorus performs at many local

and out of state events, functions, and concerts. In the past few years, the chorus also performed for a U.S. President, at the Statue of Liberty and on stage at Disneyworld and Disneyland. The chorus performs many styles of music including classical, jazz, pop, and current music. The Chorus is an active group which performs many times throughout the year. To receive credit in this course, students must participate in the academic and the extracurricular activities. *Note: This class will fulfill the fine arts requirement for graduation.*

## CIVICS

CRS 13452 Grades 9-11 CR 1/2 Q 1 block  
An understanding of the democratic process being essential to a well-functioning society, Civics examines the American governmental system at all three levels: federal, state, and local. Considerable emphasis is placed upon constitutional law and electoral procedures while keeping abreast of current issues. *Note: This class will fulfill the civics requirement for graduation. Required for graduation for all classes from the class of 2009 and on.*

## CIVICS ENR

CRS 13453 Grades 9-11 CR 1/2 Q 1 block  
An understanding of the democratic process being essential to a well-functioning society, Civics examines the American governmental system at all three levels: federal, state, and local. Considerable emphasis is placed on constitutional law and electoral procedures while keeping abreast of current issues. *Note: This class will fulfill the civics requirement for graduation. Required for graduation for all classes from the class of 2009 and on.*

## COLLEGE COMPOSITION ENR

CRS 03170 Grades 12 CR 1 S 1 block  
**PREREQUISITE:** *Placement test and approval of instructor and GBCC Running Start Coordinator.*  
College Composition fulfills the English 4 credit for seniors. This writing intensive course follows the curriculum utilized at Great Bay Community College. Students will write a two to three-page paper per week and complete a 10-page research paper. There is an advanced grammar component in the course that is applicable to the writing assignments. Literary titles include but are not limited to: *Beowulf, Macbeth, Ordinary People, and Having Our Say*. To qualify for transferable college credit students must earn a C in the course. Summer reading is required. **Note: This is a Running Start Course and students are eligible to receive college credit. Students must complete the Accuplacer placement test administered at Spaulding High School in June of their junior year.** *Note: This class will fulfill the English 4 requirement for graduation.*

## COMMERCIAL ART

CRS 01119 Grades 9-12 CR 1 S 1 block  
**PREREQUISITE:** *Art 1, computer class or computer knowledge.*  
This course offers a survey of some of the skills and media used in commercial art: illustration, lettering, designing book covers, advertisements, containers, record covers, cartooning, and fashion design are examples of possible projects. An addition to the course will be the use of Photoshop software in a computer lab. A segment of the course may include the production of an original book written and illustrated by the student. Students in this course are expected to develop original ideas and to do homework.

## COMPUTER - SOFTWARE APPLICATIONS

CRS 02119 Grade 9-10 CR 1/2 Q 1 block  
This course is designed for students who need to develop basic computer skills. A foundation course to learning

how to operate a personal computer, students will explore the three major topics of hardware, software, and communication. Using a hand-on approach, students will learn the essential components of Microsoft Office - Word, Excel, and PowerPoint.

## COMPUTER TECHNOLOGY 1

CRS 14517 Grades 11-12 CR 2 Y blocks/year  
**PREREQUISITE:** *Career and Technical Education Application Required.*  
Prepare for a high paying career in the exciting world of Computer Technology. Computer Technologies will explore computer hardware, software, networking, programming and web page design as well as the fundamentals of electricity and electronic circuitry. This course will also introduce students to the growing fields of telecommunications cabling and design. The course will be taught using hands-on projects, computer simulations, research projects and laboratory experiments. Suggested prerequisites: Electricity and Introduction to Computers. *Note: This class will fulfill the third science requirement for graduation.*

## COMPUTER TECHNOLOGY 2

CRS 14518 Grade 12 CR 2 Y blocks/year  
**PREREQUISITE:** *Career and Technical Education application required, and successful completion of Computer Technology 1.*  
This course will further prepare a student for a high paying career in the exciting world of computers. Students will be able to customize their curriculum to meet their career goals. Possible career pathways include but are not limited to computer support, telecommunications cabling, computer software installation and development, computer networking and many more.

## CONSUMER CHEMISTRY

CRS 12388 Grades 11 CR 1/2 Q 1 block  
**PREREQUISITE:** *Chemistry*  
This chemistry course is designed for those students wondering if there is truth in advertising. Through a series of investigations, students will test the effectiveness of shampoo, which toothpaste cleans, whitens, and protects, and several other products. Students will be expected to carry out lab procedures and complete lab reports. *Note: This class will fulfill one-half of the third science requirement for graduation.*

## CONTEMPORARY PROBLEMS HONORS

CRS 13420 Grade 12 CR 1 S 1 block  
**PREREQUISITE:** *B or better grade in Psychology/Sociology ENR or US History ENR.*  
This course emphasizes research methods, individual and class research projects, term papers, discussion and debate relating to the following types of contemporary problems and current affairs: crime, juvenile delinquency, minorities, poverty, women's rights, suicide, drug addiction, alcoholism, family violence, aging, terrorism and the threat of a nuclear holocaust. *Note: This class will fulfill the global studies requirement for graduation.*

## COOKING FOR SINGLES

CRS 06234 Grades 11-12 CR 1 S 1 block  
**PREREQUISITE:** *May not have taken Exploring Foods or International Foods.*  
Upperclass students, soon you will be on your own. Learn to create and cook appetizing meals. Plan for the future and acquire your cooking skills now.

## COOPERATIVE EDUCATION

Please see School-to-Career Coordinator

Location: Rochester, Somersworth, Dover

*PREREQUISITE: Application required. Students must maintain a grade of C or better in their Career and Technical Education (CTE) program in order to participate.*

Cooperative Education (Co-op) is intended to provide students in CTE programs with additional training in their chosen area of study (automotive, health science, etc.). Through Co-op students are provided a real-world, hands-on learning experience at a local business.

Students must be paid employees in an area closely related to their CTE program. All students must see the School-to-Career Coordinator in the Career Support Center in order to apply for this program. If students attend CTE programs in Dover or Somersworth, they should sign-up through the Cooperative Education Coordinators at those schools. See your CTE instructor or the School-to-Career Coordinator for more information.

## COSMETOLOGY 1

CRS 14510 Grade 11 CR 3 Y 1-1/2 block/year  
Location: Dover

*PREREQUISITE: Career and Technical Education application required.*

## COSMETOLOGY 2

CRS 14511 Grade 11-12 CR 3 Y 1-1/2 block/year  
Location: Dover

*PREREQUISITE: Career and Technical Education application required, and successful completion of Cosmetology 1.*

## COSMETOLOGY 3

CRS 14512 Grade 12 CR 3 Y 1-1/2 block/year  
Location: Dover

*PREREQUISITE: Career and Technical Education application required, and successful completion of Cosmetology 2.*

The objective of the program is to acquire the skills and knowledge necessary to pass the New Hampshire State Board of Barbering and Cosmetology Examination with a required score of 75 percent or better. To be eligible to take the exam, each student must have successfully completed 1,500 hours of instruction. All new students are required to register with the NH Board of Barbering and Cosmetology at a cost designated by the State Board. Each student is required to purchase and wear a uniform and white or black rubber soled work shoes. Students will work on both mannequins and live models throughout the program. Hours earned while, in high school may be transferred at the institutions discretion. The Cosmetology courses teach the practical skills of shampooing, scalp and hair treatments, manicuring, roller and pincurl styling, hair cutting, sterilization, fingernail disorders and hair instruction. Students improve their basic skills with the addition of permanent waving, hair coloring, bleaching, frosting, fingerwaving, facials, eyebrow arching, and facial make-up. Students will study salon management, which includes the physical design, inventory and financial operation of a beauty salon. Students begin preparation for a final examination resulting in licensing given by the NH Board of Barbering and Cosmetology. This is the standard exam given to commercial beauty school students and requires a grade of 75% or better in order to acquire a license to operate in any beauty salon within the State of New Hampshire. The cost of the exam is determined by the NH Board of Barbering and Cosmetology. *Note: Students should not expect to acquire all 1500 hours while in high school, additional time and training will be necessary at an approved post secondary cosmetology school.*

## CREATIVE METAL WORK

CRS 07244 Grades 9-12 CR 1/2 Q 1 block  
Students will explore various metal working skills such as jewelry casting, fabrication, and small scale metal manufacturing. Research on various careers relating to metal-working will be explored. Emphasis will be placed on creative design, exploring form and function. Students will work with various metals including aluminum, brass, copper, nickel, silver, and pewter.

## CREATIVE STITCHING 1

CRS 06228 Grades 9-12 CR 1 S 1 block  
Emphasis in this course is on the fundamental techniques of sewing. Students learn by constructing garments, holiday decorations and small projects such as stuffed animals, sweats, sport bags, cross stitch, pillows, picture frames and a whole lot more!

## CREATIVE STITCHING 2

CRS 06229 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Creative Stitching 1 with a "C" or better or permission from instructor.*

In this course students will expand upon the sewing fundamentals learned in Creative Stitching 1. More advanced quilting and clothing construction techniques will be explored. This course can be retaken for credit.

## CULINARY ARTS 1

CRS 14513 Grade 11 CR 2 Y block/year  
Location: Somersworth, Dover

*PREREQUISITE: Career and Technical Education Application Required.*

This course prepares students for a career in the food industry. Students learn the basics of planning and preparation of food in large quantities. They learn proper cookery, selection and use of applicable utensils, equipment, and safety and sanitation regulations involved in food preparation. Students operate the Technical Center's restaurant and they prepare bake shop products for actual retail experiences.

## CULINARY ARTS 2

CRS 14533 Grade 12 CR 2 Y block/year  
Location: Somersworth, Dover

*PREREQUISITE: Career and Technical Education application required, and successful completion of Culinary Arts 1.*

In the second year, students develop skills in managerial techniques, menu planning, purchasing and receiving, recordkeeping, work schedules, personnel, food costing and kitchen operations. These techniques are demonstrated by students as they supervise the Culinary Arts 1 students in the actual operation of the Center's restaurant.

## CURRENT ISSUES

CRS 13395 Grade 11-12 CR 1 S 1 block  
*PREREQUISITE: Must have passed US History.*

This course will emphasize active discussion of the key articles in the news from the international to the local. Students will also be expected to do research into select topics to provide greater depth of understanding of current issues. Time or Newsweek magazine will be an integral part of this course. *Note: This class will fulfill the global studies requirement for graduation.*

## DANCE

CRS 10368 Grade 9-12 CR 1/2 Q 1 block  
This course offers students the opportunity to explore all aspects of dance. Students will learn how to master the basic techniques of a variety of dance styles such as jazz,

swing, modern and many other popular dance styles. Students will also study the history and role of dance in society. Daily dance classes will focus on learning choreographed dance routines from a variety of decades. Students will be expected to participate fully and dance daily as part of the course grades and requirements. Prior dance experience is not necessary but is helpful. *Note: This class will fulfill the fine arts requirement for graduation.*

## DIGITAL MEDIA 1

CRS 14581 Grade 11 CR 2 Y block/year  
Location: Somersworth

*PREREQUISITE: Career and Technical Education application required.*

As the United States workforce continues to surge forward in a true global economy, there has been an increase in dependency on digital media. As companies increase their use of the Internet as a method to sell their products, share information, and educate their workforce the demand for digital media professionals increases. Students will explore web page design, video production, and design principles through this project-based program.

## DIGITAL MEDIA 2

CRS 14582 Grade 12 CR 2 Y block/year  
Location: Somersworth

*PREREQUISITE: Career and Technical Education application required, and successful completion of Digital Media 1.*

As the United States workforce continues to surge forward in a true global economy, there has been an increase in dependency on digital media. As companies increase their use of the Internet as a method to sell their products, share information, and educate their workforce the demand for digital media professionals increases. Students will explore web page design, video production, and design principles through this project-based program.

## DRAFTING TECH: PRE-ENGINEERING Engineering by Design™

CRS 07251 Grades 9-12 CR 1/2 Q 1 block  
Students explore industry's communication of ideas on paper through the use of multiple hands-on activities. The visualization of real objects is explored through the use of standardized drafting procedures. Objects are then developed into real life projects using problem-solving techniques. This course serves as a basic foundation for all other technology courses.

## DRAFTING TECHNOLOGY: CAD (COMPUTER AIDED DRAFTING) Engineering by Design™

CRS 07252 Grades 10-12 CR 1 S 1 block  
Explore drawing techniques used by designers, engineers and architects to express ideas. Students will learn computer aided drafting using Autocad software. Topics include use of drafting equipment, multiview/pictorial drawing, dimensioning, computer aided design and manufacturing (CAD/CAM), working drawings and architecture.

## EARLY CHILDHOOD EDUCATION 1

CRS 14508 Grade 11 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required.*

In this class you will have the wonderful opportunity to work directly with young children and to watch them grow and learn through the year. If you are a Junior or a Senior thinking about a career associated with children, whether it be as an infant caregiver, an elementary school teacher, a speech and language therapist, a preschool teacher, child psychologist, a social worker or any other child centered profession, you will benefit from taking this course. During ECE 1 you will spend about 75 hours working directly with children of various ages. Three quarters of

fieldsite experience will be in the Small Wonders Laboratory Preschool with three, four, and five year old children. One quarter may be in a community child care center, kindergarten or elementary school. While in the lab school you will learn about being a preschool teacher. You will learn to plan appropriate activities in the areas of music, art, movement, science, language, math and social studies. You will observe children to learn about their growth and development and have many opportunities to practice using positive guidance and supervision techniques. Classroom studies support and elaborate on the techniques, materials and knowledge of development needed to be successful with children. Many ECE students choose to become involved in the student organization, FCCLA, which offers many opportunities for community service, leadership, trips and conferences. **Note: This is a Running Start Course and students are eligible to receive college credit.**

### EARLY CHILDHOOD EDUCATION 2

CRS 14509 Grade 12 CR 2 Y block/year  
**PREREQUISITE:** Career and Technical Education application required, and successful completion of Early Childhood Education 1, as well as an interview.

This course is for students who have successfully completed Early Childhood Education 1, and know that a career associated with children is really what they want. This course is a continuation of the first year. Two field-site sessions are in the Small Wonders lab preschool and two sessions are in community sites. Students are given more teaching responsibilities in the laboratory preschool. Classroom studies continue to prepare students to work with children. Successful completers of the two year program receive a certificate which recognizes them as Child Care Associate Teacher by the Bureau of Child Care Licensing of the NH Department of Health and Human Services. If entering the child care field after graduation they would be eligible for more responsibilities and more pay with this credential. For those furthering their education, articulation credits may be available through some of the two year colleges in NH. Many ECE students continue to be involved in the student organization, FCCLA, which offers many opportunities for community service, leadership, trips and conferences. **Note: This is a Running Start Course and students are eligible to receive college credit.**

### ECONOMICS

CRS 13410 Grade 10-12 CR 1/2 Q 1 block  
This course is designed to develop students' understanding of basic economic principles. Although it is a survey course, students apply principles to current economic situations, they become familiar with economic and financial news and they engage in simulated economic activity. In this course, some emphasis is placed on personal economics. **Note: This class will fulfill the economics requirement for graduation.**

### ECONOMICS ENR

CRS 13409 Grade 11-12 CR 1 S 1 block  
This course develops students' understanding of the basic economic processes and the economic role of our government. A comparison of the various world economic systems is made with emphasis on the American free enterprise system. Students also become acquainted with possible approaches to various personal economic problems.

### ELECTRICAL TECHNOLOGY 1

CRS 14540 Grade 11 CR 2 Y block/year  
Location: Dover  
**PREREQUISITE:** Career and Technical Education Application Required.

This course introduces the student to the electrical trades with the study of basic DC/AC theory and OHMS Law applied to various types of circuits. As the year progresses, the student will also be introduced to the proper use of all electrical hand tools used in residential wiring.

Classroom work, along with hands-on activities, will be experienced with emphasis on the latest edition of the National Electrical Code. **Note: This class will fulfill the third science requirement for graduation.**

### ELECTRICAL TECHNOLOGY 2

CRS 14541 Grade 12 CR 2 Y block/year  
Location: Dover  
**PREREQUISITE:** Career and Technical Education application required and successful completion of Electrical Technology 1.

This course is designed for the student who has a definite career interest in the electrical trades. The student will learn advanced residential wiring at the on-site project with the building construction class. Students will also be introduced to commercial wiring and industrial motor control as well as applications of advanced circuitry with emphasis on the latest edition of the National Electrical Code.

### ELECTRICITY - EXPLORING

CRS 07248 Grades 9-12 CR 1/2 Q 1 block  
Electricity will introduce students to the exciting world of electricity and electronics. The science of electricity will be explored using hands-on projects, computer simulations, research projects and laboratory experiments. Students will learn the basics of house wiring and some of the applicable building codes and laws that govern such work. This course will be helpful for students considering a career in computer technologies, electronics, electricity, HVAC, automotive repair as well as anyone who plans to own a house. The course will be taught using hands-on projects, computer simulations, research projects and laboratory experiments. This course counts as a 1/2 credit towards a science credit. **Note: This class will fulfill the third science requirement for graduation.**

### EMPLOYMENT EXPERIENCE

CRS 15473 Grades 9-12 CR 2 Y 1 block  
This course is designed to aid special needs students in the transition from school to adult life in the community. Many aspects of life are considered with a primary focus on employment for most students. Job seeking and keeping skills and attitudes are taught and practiced as preparation for students' integration into actual jobs within the community. Students may spend up to half of the school day on job assignments and they may have a job coach to support them while they adjust to the demands of the workplace. Since individual employer's requirements differ, some job assignments may take place after normal school hours. Because of the individualized nature of this course, it may be taken more than once.

### ENGLISH 1

CRS 03152 Grade 9 CR 1 S 1 block  
English 1 includes a study of grammar, usage & mechanics, vocabulary, composition, speech, literary terms, and the four basic literary genres. English 1 students will complete a short story unit in addition to reading *Romeo and Juliet*, *A Day No Pigs Would Die*, and *The Cay*.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 1 ENR

CRS 03151 Grade 9 CR 1 S 1 block  
**PREREQUISITE:** B average or higher in 8th grade English and teacher recommendation.  
The curriculum includes an intensive study of grammar, usage & mechanics, vocabulary, speech, composition, and literature. Students will complete a short story unit and read *Romeo and Juliet*, *The Odyssey*, *Antigone/Medea*, and *Great Expectations*.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 1 HONORS

CRS 03150 Grade 9 CR 1 S 1 block  
**PREREQUISITE:** B+ average or higher in 8th grade English and teacher recommendation based on achievement and attitude.  
English 1 Honors is an academically demanding course.

The curriculum includes an intensive study of grammar, usage & mechanics, vocabulary, speech, composition, and literature. In addition to a study of the elements of the short story, students will read *The House on Mango Street*, *Great Expectations*, *The Odyssey* and *Antigone*. A study of tragedy and mythology rounds out the literary of the curriculum.  
**NOTE: Summer reading is a requirement of the course.**

### ENGLISH 2

CRS 03157 Grade 10 CR 1 S 1 block  
**PREREQUISITE:** Teacher recommendation and a passing grade in English 1.  
English 2 includes a study of grammar, usage & mechanics, vocabulary, composition, literary terms, and the four basic literary genres. Students will complete a poetry unit and work to improve listening and speaking skills. Some titles may include: *Night*, *Of Mice and Men*, *To Kill a Mockingbird*, and *The Bean Trees*.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 2 ENR

CRS 03156 Grade 10 CR 1 S 1 block  
**PREREQUISITE:** Teacher recommendation and English 1 ENR with a C+ grade or higher, or English 1 with a B- or higher.  
English 2 ENR includes a study of grammar, usage & mechanics, vocabulary, composition, literary terms, and the four basic literary genres. Students will complete a poetry unit and work to improve listening and speaking skills. Students must be willing to devote considerable time to independent reading and writing. Works studied include: *Night*, *To Kill a Mockingbird*, and either *Julius Caesar* or *A Midsummer Night's Dream*.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 2 HONORS

CRS 03155 Grade 10 CR 1 S 1 block  
**PREREQUISITE:** Teacher recommendation and a B- or higher in English 1 Honors or A- or higher in English 1 ENR.  
English 2 Honors is a challenging course for outstanding students who are serious about their education and genuinely interested in literature. Students are required to do extensive reading and writing. Students are also expected to participate meaningfully in class discussions. Titles studied include: *Night*, *Fahrenheit 451*, *The Bean Trees*, *To Kill a Mockingbird* and *A Midsummer Night's Dream*. This course surveys various types of literature and including vocabulary development, grammar, and usage.  
**NOTE: Summer reading is required.**

### ENGLISH 3

CRS 03162 Grade 11 CR 1 S 1 block  
**PREREQUISITE:** Teacher recommendation and a passing grade in English 2.  
English 3 utilizes an American literature anthology to survey American authors. Outside literary titles may include *The Crucible*, *The Scarlet Letter*, *My Brother Sam Is Dead*, *The Adventures of Huckleberry Finn*, *A Farewell to Manzanar*, and *A Walk Across America*. Reading comprehension, grammar & writing skills, and vocabulary development are emphasized.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 3 ENR

CRS 03161 Grade 11 CR 1 S 1 block  
**PREREQUISITE:** Teacher recommendation and English 2 ENR with a grade of C+ or better.  
English 3 ENR is a survey of American literature. Examples of literary selections to be studied include *The Crucible*, *The Scarlet Letter*, *My Brother Sam Is Dead*, *The Adventures of Huckleberry Finn*, *A Farewell to Manzanar*, *The Grapes of Wrath*, and *The Great Gatsby*. Content is generally balanced among reading, class discussions, grammar, composition, vocabulary development, collaborative activities, and oral presentations. Students are required to do extensive reading and writing.  
**NOTE: Summer reading for extra credit is available.**

### ENGLISH 3 HONORS

CRS 03160 Grade 11 CR 1 S 1 block  
*PREREQUISITE: Teacher recommendation, a B- or higher in English 2H or an A- or higher in English 2 ENR.*

English 3 Honors is a survey of American literature. Works which may be read and discussed include *Jubal Sackett, The Crucible, The Scarlet Letter, My Brother Sam Is Dead, The Adventures of Huckleberry Finn, The Yellow Wallpaper, The Grapes of Wrath, and The Great Gatsby*. Content is generally balanced among reading, class discussions, advanced grammar, composition, vocabulary development, collaborative activities, and oral presentations. Students are required to do extensive reading and writing. *NOTE: Summer reading is required.*

### ENGLISH 4

CRS 03167 Grade 12 CR 1 S 1 block  
*PREREQUISITE: Teacher recommendation and a passing grade in English 3.*

English 4 includes a review of the fundamentals of grammar, punctuation, and sentence structure in a practical sense with concentration on elimination of those errors which exist in composition. There is also a strong emphasis on vocabulary development through structured study and reading. Making inferences and critical evaluations are emphasized. Readings may include *Beowulf*, selections from *The Canterbury Tales, Macbeth, Flowers for Algernon, Ordinary People, and Hiroshima*.

*NOTE: Summer reading for extra credit is available.*

### ENGLISH 4 ENR

CRS 03166 Grade 12 CR 1 S 1 block  
*PREREQUISITE: Teacher recommendation and English 3 ENR with a grade of C+ or better.*

English 4 ENR undertakes a rigorous study of British literature in its historical and comparative aspects. Students do extensive reading, writing, advanced grammar, and vocabulary development. Emphasis is placed on critical analysis of the following works: *Beowulf, The Canterbury Tales, Hamlet or Macbeth*. Other works may include: *Wuthering Heights, Pride and Prejudice, The Mayor of Casterbridge, Rebecca, and The Picture of Dorian Gray*.

*NOTE: Summer reading for extra credit is available.*

### ENGLISH LANG. AND COMPOSITION AP

CRS 03165 Grade 12 CR 2 Y 1 block  
*PREREQUISITE: Departmental recommendation, Honors 3 or English 3 ENR with a grade of B+ or better.*

English 4 Advanced Placement encompasses an intense study of British literature, non-fiction and a sampling of humanistic trends, with interdependent research and analytical projects assigned. An accelerated grammar and vocabulary program is included as well as a comprehensive major research project. Students taking this course are strongly encouraged to take the Advanced Placement English Exam for college credit.

*NOTE: Summer reading is required.*

### ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESL-Q) QUARTER COURSE

CRS 15146 Grade 9-12 CR 1/2 Q 1 block  
This course is open to beginning through advanced students who need support in using the English language in the curriculum. Reading comprehension, writing, grammar, vocabulary, and English literature will be studied. Students will have individual goals based on their English proficiency. Their curriculum materials may be modified, and they will receive extra instruction for their mainstream classes.

### ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESL-S) SEMESTER COURSE

CRS 15147 Grade 9-12 CR 1 S 1 block  
This course is open to beginning through advanced students who need support in using the English language in the curriculum. Reading comprehension, writing, grammar, vocabulary, and English literature will be studied.

Students will have individual goals based on their English proficiency. Their curriculum materials may be modified, and they will receive extra instruction for their mainstream classes.

### ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESL-Y) YEAR COURSE

CRS 15151 Grade 9-12 CR 1 Y mini block  
This course is open to beginning through advanced students who are developing English Language Skills as a foreign language. Students will have individual goals based upon their language proficiency. They will follow a modified mainstream curriculum, including specific oral and written instruction in the English language. They will study the domains of speaking, listening, reading and writing English as well as American culture and English literary heritage. This course may be repeated at different levels of proficiency.

### ENVIRONMENTAL SCIENCE

CRS 12391 Grades 11-12 CR 1 S 1 block  
This course will provide the student with an overview of environmental science and integrate the various social, economic, technical, and political issues. Inter-related problems of ecological disruptions, growth of human population, land use, energy, food supplies, pollution and solid wastes are topics that will be studied. Students will be responsible for a community service project. *Note: This class will fulfill the third science requirement for graduation.*

### ENVIRONMENTAL SCIENCE ENR

CRS 12390 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Biology ENR*

This course is designed for students interested in the environment and environmental issues. This course integrates pure science with sociology, ethics, and global socio-economic issues. The student will understand the inter-relatedness between population dynamics and consumption, global environmental issues of species extinction, deforestation, pollution, and climate change. Critical thinking is a major component of this course as well as a community service project. *Note: This class will fulfill the third science requirement for graduation.*

### ENVIRONMENTAL SCIENCE HONORS

CRS 12371 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Recommendation of biology teacher required.*

This course is designed for students interested in the environment and environmental issues. This course integrates pure science with sociology, ethics, and global socio-economic issues. The student will understand the inter-relatedness between population dynamics and consumption, global environmental issues of species extinction, deforestation, pollution, and climate change. Students enrolled in Environmental Science Honors will be required to do extra readings from journals and essay writing, along with independent projects. Critical thinking is a major component of this course as well as a community service project. *Note: This class will fulfill the third science requirement for graduation.*

### EXPLORING CHILDHOOD

CRS 06231 Grade: 9-12 CR 1/2 Q 1 block  
How children grow and learn is the focus of this course. Students will learn how children develop intellectually, physically, socially and emotionally. This will be an activity-oriented course with creative projects and hands-on activities that can be used with young children.

### EXPLORING CULTURES

CRS 03178 Grades 9-12 CR 1/2 Q 1 block  
Through a variety of activities, discussions, films, projects, oral presentations and readings, students will examine common traits among people as well as unique differences between cultures. The course provides awareness of the world's perception of America, its people and the

impact of our ethnocentricity will be studied. Possible topics for discussion include marriage customs, death rituals, world religions, and music around the world. Students considering this course should exhibit a high level of maturity.

### EXPLORING FOODS

CRS 06226 Grades 10-11 CR 1 S 1 block  
*PREREQUISITE: Must pass Intro to Foods with a "C" or better or permission from the instructor.*

Once you have mastered the basics, now it's time to put that knowledge to work. You will continue to sharpen your culinary skills while studying the food groups, meal planning, and how to make good consumer choices when buying food.

### FEA - EXPLORING THE ART OF TEACHING

CRS 16589 Grades 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: Career and Technical Education Application Required.*

This hands-on course allows students to explore the art of teaching. Students will research, practice, and evaluate themselves as well as their peers. We will maintain portfolios and a reflective journal. Classroom management, teaching methods, and philosophies will be explored as well. Students completing FEA course one and two, Psychology/Sociology, Child Development and a semester long Career Internship in education will receive Completer's Certificates in the Future Educators Academy, see page 18 for more information. Additionally, students completing FEA course one and two may apply for Project Running Start Credit, see page 38 for more information.

### FEA - PRACTICING THE ART OF TEACHING

CRS 16590 Grade 11-12 CR 1/2 Q 1block  
*PREREQUISITE: Career and Technical Education Application Required. Completion of course 1 "Exploring the Art of Teaching" with a grade of "B" or better.*

This is the second course for SHS's Future Educators Academy. Course topics include the history of American education, introduction to exceptionalities, classroom observations, planning, preparing, and teaching. Students will create and maintain a professional portfolio that will be a resource for their career in education. **Note: This is a Running Start Course and students are eligible to receive college credit.** *Note: Students completing FEA course one and two, Psychology/Sociology, Child Development and a semester long Career Internship in education will receive Completer's Certificates in the Future Educators Academy, see page 18 for more information.*

### FILM STUDIES

CRS 03183 Grades 10-12 CR 1 S 1 block  
The focus of this course is to instill and foster an appreciation for film and the art of filmmaking. Not only will we be critiquing various films, we will be studying selected genres of film. Particular attention will also be paid to film terminology.

### FLORAL DESIGN - INTRODUCTORY

CRS 07269 Grade 9-12 CR 1/2 Q 1 block  
Students will be introduced to the basics of floral design techniques. Construction of centerpieces, basic corsages and holiday arrangements will be covered. Marketing, merchandising, and management of a floral business will be introduced. "The Greenhouse", our own flower shop will offer students the opportunity to work in a realistic retail environment. Come explore the exciting world of floral design.

### FRENCH 1 ENR

CRS 05200 Grades: 9-12 CR 1 S 1 block  
*PREREQUISITE: Recommendation from current English teacher; enrollment in at least ENR level English.*

It is assumed that French 1 students have not studied French previously. After the basic dialogues are present-

ed orally in class and on tapes, the vocabulary is used in varied context until the class is familiar with it. Syntax, grammar and verbs are presented as needed. After sufficient knowledge of vocabulary and structure are acquired, reading materials are presented.

### **FRENCH 2 ENR**

CRS 05201 Grades: 9-12 CR 1 S 1 block  
*PREREQUISITE: French 1*

During the second year, skills begun in French 1 are further developed. The first few weeks of the course are a period of review. Focus is placed on new verb tenses, acquisition of new vocabulary, and development of speaking skills.

### **FRENCH 3 HONORS**

CRS 05202 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: French 2*

Emphasis is placed developing language skills through activities that focus on meaningful personal communication. Speaking, listening, writing and reading skills are enhanced. As they learn to communicate more proficiently in French, the student learns more about the culture of the people who speak French. Classes are mostly conducted in French.

### **FRENCH 4 HONORS**

CRS 05206 Grade 11-12 CR 1 S 1 block  
*PREREQUISITE: French 3*

The primary focus of this course is to develop proficient oral communication in an expanded French environment. Language skills are developed through the reading of short stories and the expansion of grammatical principles. Cultural aspects are introduced. Emphasis is placed on communication and comprehension. Classes for the most part are conducted in French.

### **FRENCH 5 HONORS**

CRS 05222 Grade 11-12 CR 1 S 1 block  
*PREREQUISITE: French 4*

This course is a continuation of French 4 Honors. Students are exposed to advanced grammatical topics, including a study of the subjunctive mood which dramatically improves spoken and written skills. More complex authentic reading is introduced. Classes are mostly conducted in French.

### **FRENCH AP**

CRS 05226 Grade 11-12 CR 2 Y 1 block  
*PREREQUISITE: Completion of French Honors 5 or Departmental recommendation.*

French AP is a nationally standardized course. The use of language for active communication is emphasized to help the student develop the following: A) the ability to understand spoken French in various contexts; B) French vocabulary sufficiently ample for reading newspaper, magazine articles, and literary texts without the use of a dictionary; and C) the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Students may take the Advanced Placement French Exam for college credit.

### **FUNDAMENTAL PHYSICAL EDUCATION**

CRS 11356 Grade 9-12 CR 1 S 1 block

The focus of the physical education curriculum is two-fold. Students will spend one quarter learning and applying fitness fundamentals and one quarter participating in an adventure-based curriculum. Physical fitness is an important element in promoting a lifetime of wellness. Students will focus on muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance. In the adventure curriculum students will be introduced to a sequentially-based program that emphasizes team building, problem solving, and high rope challenges. Students will learn to trust, cooperate, and to take risks in a supportive and challenging environment. *Note: This class will fulfill the physical education requirement for graduation. A 77 or better in this course is a prerequisite for all physical education electives.*

### **GEOMETRY ENR**

CRS 08313 Grades 9-10 CR 1 S 1 block  
*PREREQUISITE: 77 in Algebra 1-B ENR or recommendation of the Algebra 1 H teacher.*

Traditional Euclidean Geometry is studied with emphasis on structure, method and formal proof. Topics include: lines and angles, parallel lines and planes, congruent triangles, similar triangles, right triangles, circles, area of plane figures, area and volume of solids and construction. *Note: Students receiving a 70-76 in Geometry ENR are advised to elect Math Conn 2B.*

### **GEOMETRY H**

CRS 08317 Grades 9-10 CR 1 S 1 block  
*PREREQUISITE: Recommendation of 8th grade math teacher or Algebra 1-B ENR teacher.*

Traditional Euclidean Geometry is studied with emphasis on structure and formal proof. Topics include: logic and set theory, lines and angles, parallel lines and planes, congruent triangles, similar triangles, right triangles, circles, area of plane figures, area and volume of solids, locus and construction and transformations. *Note: Students are recommended for Algebra 1 H and Geometry H by their eighth grade math teacher after successful completion of Algebra 1A ENR. Both courses should be elected in the freshman year.*

### **GLOBAL STUDIES**

CRS 13451 Grades 9-11 CR 1/2 Q 1 block

With an emphasis on cultural geography and modern world history, Global Studies will examine the political structures, economic systems, and religious institutions of our increasingly interdependent world. This cultural and historical survey includes analysis of the causes and effects of world conflicts in the twentieth century and pays particular attention to recent and current international events. *Note: This class will fulfill the global studies requirement for graduation. Required for graduation for all classes from the class of 2009 on.*

### **GLOBAL STUDIES ENR**

CRS 13449 Grades 9-11 CR 1/2 Q 1 block

With an emphasis on cultural geography and modern world history, Global Studies will examine the political structures, economic systems, and religious institutions of our increasingly interdependent world. This cultural and historical survey includes analysis of the causes and effects of world conflicts in the twentieth century and pays particular attention to recent and current international events. *Note: This class will fulfill the global studies requirement for graduation.. Required for graduation for all classes from the class of 2009 on.*

### **GRAPHIC COMMUNICATIONS TECHNOLOGY**

CRS 07253 Grades 9-12 CR 1 S 1 block

Students will explore the ever important world of communication through the following associated areas: graphic design and layout, electronic desktop publishing which includes Photoshop application and scanner technology, printing technology, pre-press, platemaking, bindery, history of communication, legal restrictions, and career opportunities. All activities are focused on developing creative thinking and problem solving skills. Students' designs will be a major emphasis in all activities. The development of a student portfolio is required. Career opportunities in the fields of graphic design, commercial art, printing, computer graphics and other related fields will be explored. Safety concerns related to operating equipment and handling chemicals is emphasized. *Note: This class will fulfill the fine arts requirement for graduation.*

### **GRAPHIC DESIGN - EXPLORING**

CRS 07246 Grade 9-12 CR 1/2 Q 1 block

Students will explore the many different aspects and career opportunities of graphic design. Graphic design is the communication tool artists use to illustrate, advertise, and promote products in the industrial world. Students will

be encouraged to use their creative talents and computer skills to produce such works of art as: developing logos, illustrating and promoting a company they choose, magazine layouts, and other visual stimulating projects. Students will be supplied with the latest, state of the art technology and software including QuarkXpress and Adobe Photoshop to aid in their design. *Note: This class will fulfill the fine arts requirement for graduation.*

### **GRAPHIC DESIGN/PRINTING TECHNOLOGY 1**

CRS 14521 Grade 11 CR 2 Y blocks/year  
*PREREQUISITE: Career and Technical Education application required.*

If you like to draw, design on computers, be creative, scan images, use digital cameras and produce your creations through print technology, then this course is for you. You will use the latest software(Photoshop and QuarkXpress) to layout and design your projects. The Graphic Arts industry offers a wide range of career opportunities that employs both men and women. Job titles include graphic designers, page-layout artists, camera operators, pre-press technicians, computer operators, plate makers, press operators, bindery workers, computer programmers, chemists and estimators. This hands-on course acquaints students with the latest cutting edge technology, digital color imaging and conventional offset technology. Students will design and print business cards, tickets, letterheads, CD covers, posters and various other items. *Note: This class will fulfill the fine arts requirement for graduation.*

### **GRAPHIC DESIGN/PRINTING TECHNOLOGY 2**

CRS 14522 Grade 12 CR 2 Y blocks/year  
*PREREQUISITE: Career and Technical Education application required.*

Never has the demand been greater for graphic designers and print technicians. This advanced hands-on course acquaints students with the latest computer technology, digital color imaging (Photoshop, Illustrator, and QuarkXpress), digital and conventional print technology and introduction to animation software. Students in this advanced program will learn to think like a designer and technician for their own personal expression. Additionally, they will gain real-world experience by working with actual customers and learning to further develop their skills. The student in this course will use research, critical thinking, creativity, and a range of problem-solving principles to complete their assignments. Projects include phot-composites, posters, publications, invitations, and various other items. **Note: This is a Running Start Course and students are eligible to receive college credit.**

### **HANDBELLS 1**

CRS 10365 Grade: 9-12 CR 1/2 Q 1 block

This course offers students the opportunity to learn to read music more efficiently through the study of playing handbells. Handbells are pitched instruments which are rung in conjunction with music written for this type of musical ensemble. No experience is required but a serious desire to practice reading music and performing within a group of 12 students is necessary to be successful in this class. Reading music in this class will assist students in playing other instruments for their own personal enjoyment at home such as keyboards and guitars. *Note: This class will fulfill the fine arts requirement for graduation.*

### **HANDBELLS 2**

CRS 10366 Grade: 9-12 CR 1/2 Q 1 block  
*PREREQUISITE: Handbells 1 or permission of the instructor.*

This course offers students the opportunity to continue performing and reading music through the study of playing handbells and handchimes. Successful completion of Handbells 1 or permission of the instructor is needed to participate in this advanced level class. Reading music in this class is essential and performances will be required in this class. *Note: This class will fulfill the fine arts requirement for graduation.*

## HEALTH

CRS 06225 Grade: 9-12 CR 1/2 Q 1 block  
Instructional content and learning activities in this course will enable students to initiate a self-evaluation of their own health knowledge, attitudes and behaviors. Topics covered in this course will include wellness, lifestyle choices, drug and alcohol abuse, sexually transmitted diseases, nutrition, stress, mental health, and prevention and care of diseases. *Note: This class will fulfill the health requirement for graduation.*

## HEALTH SCIENCE TECHNOLOGY 1

CRS 14523 Grade 11 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required.*

During the first year of this course, students are introduced to the field of health care and will investigate specific job opportunities in the health care industry. They are exposed to ethical and legal aspects of health care, microorganisms, safety issues such as fire, body mechanics, and infection control. After completing anatomy and physiology, nutrition and diet therapy, CPR and first aid, the students may travel to various community health care agencies for observation. *Note: This class will fulfill the third science requirement for graduation.*

## HEALTH SCIENCE TECHNOLOGY 2

CRS 14524 Grade 12 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required. Students need to have met all competencies for HST 1 and pass HST 1 final exam with an 80 or above.*

The second year is for students who have a definite career interest. There is more in-depth study of body systems, disease processes, diagnoses, treatments and rehabilitations along with investigation into human growth and development and pharmacology. They investigate current health issues and consumer information. Students learn multiple health care skills on the assistant level and will travel to health agencies for clinical practice in an area of their interest. Upon successful completion a certificate of competency is issued. Students are expected to arrange for their own transportation to and from field sites. *Note: This is a Running Start Course and students are eligible to receive college credit. Students will incur cost in taking HST 2.*

## HISTORICAL FICTION

CRS 13390 Grades 11-12 CR 1 S 1 block  
Historical Fiction is designed to place an emphasis on the use of novels, film, and media to enhance the student's knowledge and understanding of historical events. The ability to make both written and oral critical evaluations and analysis of extensive outside reading is required.

## HISTORICAL FICTION ENR

CRS 13427 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: B or better in social studies or English class and teacher recommendation.*

Historical Fiction is designed to place an emphasis on the use of novels, film, and media to enhance the student's knowledge and understanding of historical events. The ability to make both written and oral critical evaluations and analysis of extensive outside reading is required.

## HISTORY OF THE AMERICAN PRESIDENTS

CRS 13389 Grades 10-12 CR 1 S 1 block  
This course examines, explores and celebrates the lives of the Presidents of the United States. Through a variety of readings, activities, primary documents, films and projects we will study each President's early life, how they rose to power and how they ultimately governed the country. We will explore their election campaigns (Tippecanoe and Tyler too!), the accomplishments and failures of the

administrations and whether they took an active role or passive role in their terms in the White House.

## HOME PLUMBING - EXPLORING

CRS 07262 Grade: 9-12 CR 1/2 Q 1 block  
Students explore the services of water and energy transportation systems in today's modern home. This includes the study of supply and waste associated with water systems and fuel energy supplies for appliances. National and local building code considerations and permits are studied. Hands-on experiences will focus on materials' assembly and connection to all common household appliances. Safety of equipment, including material handling issues are emphasized. Career opportunities are explored and students learn about environmental considerations related to home appliances.

## HORTICULTURE 1

CRS 14320 Grade 11 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required.*

Year one - Students will learn the basics of horticulture(plant growth science), including plant identification, plant structure and function, photosynthesis, growth, and reproduction. Students will apply what they learn by practicing propagation and plant care techniques in the school greenhouse. Units will also be taught in the areas of basic floral design, landscape maintenance, and greenhouse/garden center operations. Safety and health will be covered as it relates to all aspects of the course. "The Greenhouse", Spaulding High School's own flower shop and garden center, will offer students the ability to work in a realistic retail environment. Students will also be able to participate in the Rochester Chapter of the FFA. This course provides an introduction in horticulture, floral design, and leadership skills. *Note: This class will fulfill the third science requirement for graduation.*

## HORTICULTURE 2

CRS 14321 Grade 12 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required, successful completion of Horticulture 1.*

Year two - Students will learn about plant anatomy & physiology. Hydroponic growing systems, (water grown plant science), will be discussed and utilized to demonstrate alternative growing methods. Hydroponics will also include nutrient water analysis, electro-conductivity measurement, and pH analysis. Floral design will include more advanced arrangements using living as well as silk flowers. Greenhouse/garden center management will look at retail business skills such as purchasing, stocking and labor concerns. Safety and health will be covered as it relates to all aspects of the course. Employment skills will be reinforced with the completion of a resume and job search. Students will participate in the Rochester Chapter of the FFA. Finally students will individually be expected to complete a keystone project of their choice, which will develop leadership and/or community service skills.

## HORTICULTURE/LANDSCAPING 1

CRS 14545 Grade 11 CR 2 Y block/year  
Location: Somersworth, Dover  
*PREREQUISITE: Career and Technical Education Application Required.*

In this two-year course, students receive instruction in landscaping and weeds, insect and disease identification and control. Students also receive practical experience in landscaping a home, surveying, maintaining nursery stock, and operating equipment operation. Related business management techniques are studied in this course. *Note: This class will fulfill the third science requirement for graduation.*

## HORTICULTURE/LANDSCAPING 2

CRS 14546 Grade 12 CR 2 Y block/year  
Location: Somersworth, Dover  
*PREREQUISITE: Career and Technical Education*

*Application Required, and successful completion of Horticulture/Landscaping 1.*

In this two-year course, students receive instruction in landscaping and weeds, insect and disease identification and control. Students also receive practical experience in landscaping a home, surveying, maintaining nursery stock, and operating equipment operation. Related business management techniques are studied in this course.

## HOUSING AND HOME DECOR

CRS 06232 Grades 9-12 CR 1 S 1 block  
Students in this class will be introduced to many different architectural designs and styles of housing. They will develop their own personal sense of style through the study of color and design. They will also learn to decorate a condo, apartment or home so that it is a reflection of themselves. *Note: This class will fulfill the fine arts requirement for graduation.*

## HUMAN BIOLOGY

CRS 12381 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Students must have passed Biology.*

The goal of this course is to introduce the student to the anatomy and physiology of the human body. Various systems are introduced along with their basic structure and function. Concepts such as homeostasis and feedback loops are described and synthesized into student learning and appreciation of maintaining health. *Note: This class will fulfill the third science requirement for graduation.*

## INDIVIDUAL/DUAL GAMES

CRS 11362 Grade 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: 77 or better in Fundamental PE*

Students will explore in a variety of lifetime sports and activities including tennis, golf, badminton, horseshoes, bocce ball and orienteering. The focus will be on skill development, game strategy, and game etiquette. Students will take skill and written tests in these two activities. This course has a mandatory fieldtrip as part of course requirements. *Note: Students must see PE Teacher to sign-up for this course.*

## INDUSTRIAL, COMMERCIAL, & AGRICULTURAL MECHANICS (ICAM) 1

CRS 14537 Grade 11 CR 2 Y block/year  
Location: Somersworth  
*PREREQUISITE: Career and Technical Education application required.*

In this two-year course, students receive instruction in a wide range of skills necessary to succeed in the fields of small engine repair, metal fabrication, welding, and recreational vehicle assembly.

## INDUSTRIAL, COMMERCIAL, & AGRICULTURAL MECHANICS (ICAM) 2

CRS 14538 Grade 12 CR 2 Y block/year  
Location: Somersworth  
*PREREQUISITE: Career and Technical Education Application Required.*

In this two-year course, students receive instruction in a wide range of skills necessary to succeed in the fields of small engine repair, metal fabrication, welding, and recreational vehicle assembly.

## INTEGRATED FRESHMAN SCIENCE

CRS 12905 Grade 9 CR 1 S 1 block  
This course offers a general introduction to Earth Science and Physical Science. Topics of study will include scientific practices, geology, meteorology, astronomy, matter, energy, motion and forces. Emphasis is placed on continuing ideas and skills that will be useful in future science sources. *Note: This class will fulfill the physical science requirement for graduation.*

### INTEGRATED FRESHMAN SCIENCE ENR

CRS 12903 Grade 9 CR 1 S 1 block  
*PREREQUISITE: Recommendation by 8th grade teacher and standardized test scores in math and science will be considered in the process.*

This course offers an in depth introduction to Earth Science and Physical Science. Topics of study will include scientific practices, geology, meteorology, astronomy, matter, energy, motion and forces. Emphasis is placed on continuing ideas and skills that were previously taught. Critical thinking is a large component of the course work. *Note: This class will fulfill the physical science requirement for graduation.*

### INTEGRATED FRESHMAN SCIENCE HONORS

CRS 12904 Grade 9 CR 1 S 1 block  
*PREREQUISITE: Recommendation by 8th grade teacher and standardized test scores in math and science will be considered in the process.*

This course offers a rigorous introduction to Earth Science and Physical Science. Topics of study will include scientific practices, geology, meteorology, astronomy, matter, energy, motion and forces. Emphasis is placed on critical thinking and analysis. The ability to work independently and solve problems is a basic component of this class. All students electing this class must be able to complete an independent project. *Note: This class will fulfill the physical science requirement for graduation.*

### INTERNATIONAL FOODS

CRS 06235 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Must pass Exploring Foods or Cooking for Singles with C or better or permission from instructor.* In this course, students will expand their culinary horizons by discovering the foods of different countries and investigating the diverse cooking regions of our own country.

### INTRO TO CREATIVE NONFICTION

CRS 03184 Grade 11-12 CR 1 S 1 block  
*PREREQUISITES: B- in English and a writing sample submitted to teacher.*

This course is a new approach to writing non-fiction. Students will be introduced to several methods for creatively sharing the truth as it happened. There will be weekly writing assignments dealing with various topics such as writing from observation and from pictures as well as conversational writing and non-fiction poetry. All assignments will culminate in a final memoir-type paper about the student's life. Students must be willing to write and observe on their own for this writing-intensive course.

### INTRODUCTION TO COMPUTER REPAIR

CRS 07247 Grade 9-12 CR 1/2 Q 1 block  
In Introduction to Computer Repair we will explore the exciting world of computer technology. We will learn about the internal components in a computer and how they interact. We will also learn how to load the necessary software to make the computer operate. We will also explore the worlds of PC repair, telecommunication and networking. *Note: This class will fulfill one-half of the third science requirement for graduation.*

### INTRODUCTION TO FOODS

CRS 06238 Grade 9-10 CR 1/2 Q 1 block  
This course focuses on the fundamental cooking techniques. While cooking, you will learn proper measuring skills, knife handling techniques, kitchen safety, sanitation, and basic cooking methods. This class is only open to freshman and sophomores.

### INTRODUCTION TO MUSIC TECHNOLOGY

CRS 10355 Grade 9-12 CR 1/2 Q 1 block  
This course explores the history and impact of music technology. Topics covered in this course will include: history of music technology, sound system basics, MIDI (Musical Instrument Digital Interface), exploration of notation programs (Finale 2002), Sequencing programs (Cakewalk, Home Studio 2002), and Educational Aids. Knowledge of

how to read music is helpful, but not necessary. Students will create a personal musical composition and record their song as a major class project. Students will explore many different types of music software and will be encouraged to create and experiment with techniques used in producing recordings. *Note: This class will fulfill the fine arts requirement for graduation.*

### INTRODUCTION TO PHILOSOPHY

CRS 13388 Grades 10-12 CR 1 S 1 block  
Philosophy is commonly defined as "thinking about thinking". Introduction to Philosophy is a survey course in which the major concepts of philosophy are explored. This class is intended to act as a foundation to some of the major problems, methods and insights of philosophy with readings from both classical and contemporary sources. We will look at topics ranging from the history of philosophy and current philosophical debates: ethics, social and political philosophy, the scope and nature of our knowledge of the world, the nature of the mind. Extensive outside reading will be required.

### LATIN 1 ENR

CRS 05204 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Recommendation from current English teacher; enrollment in at least ENR level English.*

The goals for the first year study of Latin are to teach the forms and syntax necessary to understand Latin literature and to prepare students to read selected exercises and stories related to Roman legend, history and culture.

### LATIN 2 ENR

CRS 05205 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Latin 1*

Latin 2 begins with a thorough review of the grammar learned in Latin 1. The students will study pronouns, comparison of adjectives and adverbs, infinitives, and indirect statements. The practical use of this syntax is seen in the translation of the readings after each unit. The study of Roman history, legend, and culture continues in the course.

### LATIN 3 HONORS

CRS 05213 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Latin 2*

This course will present students with a rich variety of both syntax and further Latin readings. Students will expand their reading of various Roman authors and will be provided the opportunity to understand and enjoy more advanced study of the language and the people who spoke Latin.

### LATIN 4 HONORS

CRS 05214 Grade 10-12 CR 1 S 1 block  
*PREREQUISITE: Latin 3*  
Latin 4 is a continuation of Latin 3.

### MACHINE TOOL TECH 1 - EXPLORING

CRS 07254 Grades 9-12 CR 1/2 Q 1 block  
Students explore industrial-technical careers and their entrance requirements through problem-solving activities in the machine tool area. Topics covered include: precision measuring tools, materials and processes associated with metals, as well as engine lathes, milling machines and various other stationary and portable power equipment. Safety instruction related to the proper use and care of hand and power driven tools is emphasized.

### MACHINE TOOL TECH 2 - EXPLORING

CRS 07255 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: C in Machine Tool Technology 1.* Students will receive an in depth study of machine tools including the engine lathe, milling machine, grinding machine, along with an introduction to Computer Aided Manufacturing (CAM), Computer Numerical Control (CNC), and MasterCAM software. Students will have the opportunity to work on our new (2009) Haas CNC lathe

and 4-axis milling manufacturing centers. Also included will be an introduction of hot metals, and gas and electric welding. Students will be assigned projects that utilize all aspects of topics covered in this course. Safety instruction related to the proper use of equipment and methods will be emphasized.

### MACHINE TOOL TECHNOLOGY 1

#### Engineering by Design™

CRS 14529 Grade 11 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required.*

The Machine Tool Technology program is a hands-on program that provides students with an opportunity to learn basic machining techniques and to develop the skills needed to enter the many career related fields related to metals manufacturing. They will learn the importance of precision measuring and cutting. Students learn to care for, set-up and operate the drill press, engine lathe, milling machine and grinding machine. Students will be introduced to welding as well as Computer Aided Manufacturing (CAM), Computer Numerical Control (CNC), and MasterCAM software. Students will have the opportunity to work on our new (2009) Haas CNC lathe and 4-axis milling manufacturing centers. Safety instruction related to the proper use of equipment and methods will be emphasized.

### MACHINE TOOL TECHNOLOGY 2

#### Engineering by Design™

CRS 14530 Grade 12 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required, and successful completion of Machine Tool Technology 1.*

The Machine Tool Technology 2 program continues with students learning more about different types of metal and materials used in the machine trades along with all aspects of Industry. This program provides more advanced study of areas covered in Machine Tool Technology 1, and students will utilize Computer Aided Manufacturing (CAM), Computerized Numerical Control (CNC), and MasterCAM software. Students will have the opportunity to work on our new (2009) Haas CNC lathe and 4-axis mill manufacturing centers. Students will have many opportunities to design, set-up, and manufacture parts on the CNC machines throughout the year. Guest speakers from industry and post secondary educational representatives will offer an insight to career opportunities. Safety instruction related to the proper use of equipment and methods will be emphasized.

### MARKETING ENR

CRS 02143 Grades 11-12 CR 1 S 1 block  
This course will examine the various roles the government plays in our free enterprise system. Students will diagram the channels of distribution for consumer and industrial products. Standard business practices involved in importing and exporting products will be discussed. Concepts, systems, and tools needed to gather, access, synthesize, evaluate, and disseminate information for use in making business decisions will be used. Students will develop an organized business plan, provide details related to goods and services to be offered, and create a marketing plan. *Note: This class will fulfill the economics requirement for graduation. Note: This is a Running Start Course and students are eligible to receive college credit.*

### MARKETING EDUCATION 1

CRS 14531 Grade 11 CR 2 Y block/year  
Location: Somersworth  
*PREREQUISITE: Career and Technical Education application required.*

Marketing introduces students to the world of retailing and fashion merchandising and provides them with experiences in the distribution of goods and services. Study areas include: economics, human relations, advertising and displaying, buying and selling merchandise. The second year of Marketing provides in-depth study of displaying, advertising, layout, merchandising and the organiza-

tion and operation of a business. It helps students gain experience in retailing, wholesaling and service businesses. Students share responsibility of the store and directly apply skills they have learned in the classroom. Cooperative Education is an important component of the program. *Note: This class will fulfill the economics requirement for graduation.*

## MARKETING EDUCATION 2

CRS 14532 Grade 12 CR 2 Y block/year  
Location: Somersworth

*PREREQUISITE: Career and Technical Education application required, and successful completion of Marketing Education 1.*

Marketing introduces students to the world of retailing and fashion merchandising and provides them with experiences in the distribution of goods and services. Study areas include: economics, human relations, advertising and displaying, buying and selling merchandise. The second year of Marketing provides in-depth study of displaying, advertising, layout, merchandising and the organization and operation of a business. It helps students gain experience in retailing, wholesaling and service businesses. Students share responsibility of the store and directly apply skills they have learned in the classroom. Cooperative Education is an important component of the program.

## MATH CONN 1A

CRS 08307 Grades 9-12 CR 1 S 1 block

*Prerequisite: 8th grade math teacher recommendation.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. Math Conn 1A begins with data analysis and ends with the algebra of straight lines. Students will utilize a graphing calculator (provided) throughout the course for developing concepts about lines, one variable statistical analysis, histograms and box plots. *Note: Students who successfully complete Math Conn1A and 1B will have covered the concepts of Algebra 1.*

## MATH CONN 1B

CRS 08304 Grades 9-12 CR 1 S 1 block

*Prerequisite: Passing grade in Math Conn 1A or a 70-76 in Algebra 1A ENR.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. This course expands on the ideas learned in Math Conn 1A. Math Conn 1B begins with graphical estimation and ends with an introduction to probability. Students will utilize a graphing calculator (provided) to examine the differences between various functions (linear, periodic, exponential), to determine the line of best fit, which will be used as a tool to interpolate and forecast, and to count permutations and combinations. *Note: Students that successfully complete Math Conn 1A and 1B will have covered the concepts of Algebra 1.*

## MATH CONN 2A

CRS 08321 Grades 10-12 CR 1 S 1 block

*Prerequisite: Passing grade in Math Conn1B or Math Fund C or a 70-76 in Algebra 1B ENR.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. Algebraic ideas from course 1A and 1B are elaborated by using geometric interpretations. Math Conn 2A begins with determining perimeters and area, covers the Pythagorean theorem, similarity, and congruence, and ends with stretching and shrinking areas and volumes. The graphing calculator (provided) application Cabri Jr is utilized as a tool to develop geometric conjectures. *Note: Students that successfully complete Math Conn 2A and 2B will have covered the concepts of Geometry.*

## MATH CONN 2B

CRS 08322 Grades 10-12 CR 1 S 1 block

*Prerequisite: Passing grade in Math Conn 2-A or 70-76 in Geometry ENR.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. Math Conn 2B begins with the law of sines and the law of cosines, covers circles and disks, and ends with volumes of solid and volumes of revolution. The graphing calculator (provided) application Cabri Jr is utilized as a tool to develop geometric conjectures. *Note: Students that successfully complete Math Conn 2A and 2B will have covered the concepts of Geometry.*

## MATH CONN 3A

CRS 08329 Grade 11-12 CR 1 S 1 block

*PREREQUISITE: Passing grade in Math Conn 2B or a 70-76 in Algebra 2 ENR.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. Math Conn 3A begin with matrices, covers quadratic, polynomial, reciprocal, absolute value, exponential and logarithmic functions, and ends with an overview of trigonometric functions to include developing and applying trigonometric identities. A graphing calculator (provided) is utilized throughout the course as a tool to develop concepts about functions and to perform matrix computations. *Note: Students who successfully complete Math Conn 3A will have covered concepts of Algebra 2 and will have met the minimum math requirement for admission to UNH in a non math related major.*

## MATH CONN 3B

CRS 08335 Grades 11-12 CR 1 S 1 block

*Prerequisite: Passing grade in Math Conn 3A.*

This course is an informal approach to Trigonometry with emphasis on application. Topics include: definition of trig functions, applications with right and oblique triangles, rectangular and polar graphs, identities, inverse functions, trig equations, and complex numbers. *Note: Math Conn 3B does not prepare students for Calculus. Students intending to elect Calculus are urged to elect Trigonometry ENR and Advanced Math ENR.*

## MATH FUND A

CRS 08332 Grades 9 CR 1 S 1 block

*Prerequisite: Recommendation of 8th grade math teacher.*

A standards based approach which connects experiences with mathematics and relates these experiences to everyday life. Math Fund A begins data analysis and ends with an introduction to Algebra. Students will utilize a graphing calculator (provided) to analyze one variable statistics and to create histograms and box plots. *Note: Students who successfully complete Math Fund A, B & C will have covered the concepts of Math Conn 1A & 1B. Placement is restricted to ninth grade students recommended by their grade 8 math teacher based on a lack of readiness for Math Conn 1A with a RIT score below 215.*

## MATH FUND B

CRS 08333 Grades 9 CR 1 S 1 block

*Prerequisite: Passing grade in Math Fund A or recommendation of the Math Conn 1A teacher.*

A Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. This course expands on the ideas learned in Math Fund A. Math Fund B begins with the algebra of straight lines and ends with using lines to estimate and forecast. Students will utilize a graphing calculator (provided) to explore straight lines, to determine the least squares line (linear regression), to apply the line of best fit to interpolate and to forecast, and to determine the correlation coefficient and its meaning. *Note: Students who successfully complete Math Fund A, B & C will have covered the concepts of Math Conn 1A & 1B.*

## MATH FUND C

CRS 08334 Grades 9 CR 1 S 1 block

*Prerequisite: Passing grade in Math Fund B*

A Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. This course expands on the ideas learned in Math Fund B. Math Fund C begins with developing the concepts of a function and ends with an introduction to probability. Students will utilize a graphing calculator (provided) to compare a variety of functions types and to compute permutations and combinations. Sample spaces will be explored as a means of computing probability. *Note: Students who successfully complete Math Fund A, B & C will have covered the concepts of Math Conn 1A & 1B*

## MATH SURVEY

CRS 08336 Grade 11-12 CR 1 S 1 block

*PREREQUISITE: Passing grade in Math Conn 3A, Accuplacer Elementary Algebra score below 62 and/or Accuplacer Arithmetic Score below 85*

This course is intended to meet the prerequisite for GBC (Great Bay Community College) desiring to enroll in TAC.Math for Running Start credit. Topics to be covered include: fractions, decimals, percents, linear equations and inequalities, polynomials, exponents, graphing applications, rational expressions, systems of linear equations, radical expressions, quadratic equations and applications of algebra.

## MICRO & MACRO ECONOMICS AP

CRS 13419 Grade: 11-12 CR 2 Y 2 blocks

*PREREQUISITE: B average in Honors or ENR English and math.*

This course is a nationally standardized course for advanced students. Some students may earn credit for college economics after having completed this course. This course develops students' understanding of the economic processes and the economic role of our government. A comparison of the various world economic systems is made with emphasis on the American free enterprise system. Students also become acquainted with possible approaches to various personal economic problems. *Note: This class will fulfill the economics requirement for graduation.*

## MICROBIOLOGY/BIOTECHNOLOGY ENR

CRS 12368 Grades 11-12 CR 1 S 1 block

*PREREQUISITE: Biology and recommendation by previous science teacher.*

This course will be an overview of the microbiology and biotechnology techniques commonly used in, medicine, industry and forensics today. Topics and techniques included will be: 1) the isolation and identification of bacteria and how bacteria cause disease; 2) how the immune system works and how we use antibodies to detect disease, and 3) DNA structure and function, DNA isolation, DNA fingerprinting, and how DNA is used in forensics. We will also discuss the use of biotechnology in industry, agriculture, and medicine. This course would be useful for students planning on careers in health care, forensics, or biotechnology. The Project Running Start coordinator will visit Spaulding to officially register the class at the beginning of the semester. A non-refundable fee of \$ 100.00 is due at this time. Students must achieve a C average or better to transfer the credit to a school within the university system or to a private or out-of-state college/university. *Note: This is a Running Start Course and students are eligible to receive college credit. Note: This class will fulfill the third science requirement for graduation.*

## MICROSOFT OFFICE 1

CRS 02147 Grades 9-12 CR 1 S 1 block

This course is recommended for those students wishing to enhance their word processing, spreadsheet, and PowerPoint presentation skills by using the Microsoft Office suite. Letters, memos, reports, tables, and electronic workbooks will be created and edited. All of these applications are excellent tools for home, school, and work. There will be integrated projects utilizing the use of the internet.

## **MICROSOFT OFFICE 2**

CRS 02148 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Final grade of 80 or better in Microsoft Office 1.*

Students will continue to learn advance skills in all Microsoft Suite components (Word, Excel, PowerPoint). Other programs that will be explored are MS Publisher, Access, and Movie Maker. Integrated projects utilizing research from various sources will help enhance students electronic portfolios.

## **MODERN WORLD HISTORY ENR**

CRS 13398 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: C or better in a top 8th grade English and history and/or teacher recommendation.*

This course is intended for students who have demonstrated above average ability and achievement in history. It is a course consisting of the study of humankind's political, cultural, and social institutions, beginning with the Renaissance and progressing up to the 21st century. Students complete extensive work developing skills in research, writing, map interpretation and vocabulary. Class requirements include one research project, one class presentation and one independent project. *Note: This class will fulfill the global studies requirement for graduation.*

## **MONEY & BANKING**

CRS 02266 Grades 10-11 CR 1 S 1 block  
This course presents a survey of principles and practices of banking and financial systems in the United States. Students will learn about the major functions of banks and other financial institutions, procedures, and in-house daily operations, central banking systems through the Federal Reserve, and the history of the US banking industry. An overview of loan creation, debt collection, and credit functions will be presented. (Meets the NAF requirement for the Academy of Finance).

## **MUSIC APPRECIATION**

CRS 10354 Grades 9-12 CR 1/2 Q 1 block  
This course provides students with an overview of musical styles. Topics include: Music Around You, Notation, Instruments of the Orchestra, Mozart and Classical Times, American Composers, Jazz and Blues, American Music Theatre, Music Careers, Decade Research Projects, the Beatles, and the history of rock. Class lessons are presented in a variety of styles through video presentations, research projects, listening projects and theme based units. Prior musical experience is not necessary to participate in this class. *Note: This class will fulfill the fine arts requirement for graduation.*

## **MUSIC THEORY**

CRS 10363 Grades 10-12 CR 1/2 Q 1 block  
This course is designed for students who are seriously interested in learning the elements of music. The course will focus on basic skills of musicianship such as elements of rhythm, melody, harmony, timbre, texture, and form. Activities will include music performance, aural dictation, and composition. The textbook and workbook will prepare students to enter college as music majors. *Note: This class will fulfill the fine arts requirement for graduation.*

## **MUSIC Theory ENR**

CRS 10369 Grades 9-12 CR 1/2 Q 1 block  
*PREREQUISITE: Permission of the instructor.*  
This course is designed for the student who already reads music very well in either the treble or bass clef. Students who read tabs on guitar, should take Music Theory. Students who participate in band or chorus and read notation quickly and easily should sign up for Music Theory ENR. Both sections of Music Theory will provide an excellent foundation for students who are seriously thinking of becoming better musicians and/or are thinking of pursuing a career in the field of music. *Note: This class will fulfill the fine arts requirement for graduation.*

## **NEWSWRITING AND PHOTOGRAPHY**

CRS 03177 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: B- in English, and permission of instructor.*

Students will develop a working knowledge of journalism and digital photography. Though writing is the major focus of the course, students with an interest in photography are also encouraged to enroll. Strong basic English skills including grammar, punctuation and paragraph structure are essential. Students in this class are responsible for producing Spaulding's school newspaper.

## **NH-JOBS FOR AMERICA'S GRADUATES**

CRS 16906 Grades 9-12 CR 2 Y 1 block  
*PREREQUISITE: Permission of NH-JAG Youth Specialist.*

Students enrolled in the NH-JAG program participate in a class as well as a career association whereby elected officers engage all students in leadership development, social and civic activities. The NH-JAG curriculum is designed to help improve a student's personal and academic success, while raising awareness of the future. The curriculum includes 37 core competencies. These core competencies include career development, job attainment, job survival, basic skills, leadership and self development and personal skills. Through NH-JAG sponsored events such as the Leadership Development Conference and many unique chapter projects, members are given the opportunity to work on decision making, communication and community service skills. Students prepare for future careers by participating in many career development opportunities such as tours of local businesses and job shadows. Guest speakers visit the classroom focusing attention on the motivation, attitude and pre-employability skills needed in pursuing a career.

## **NORTH AMERICAN INDIAN STUDIES ENR**

CRS 13407 Grades 10-12 CR 1 S 1 block  
This course will explore the culture, history, and contemporary issues of the North American Indian tribes. The students will trace the various political, social, and economic institutions of the continental United States' tribes from their early development to current day. In addition, the course will focus on the affects European and American contact had on the tribes' development as well as how tribes interact with one another.

## **PAINTING AND DRAWING**

CRS 01115 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Art 1*

Advanced drawing and painting skills are expected of students who enroll in this course. This course may cover still-life, landscape, figure and portrait drawing with pencil, ink, conte, watercolor, pastels and acrylics. Students are expected to develop original ideas and to do homework regularly.

## **PERSONAL FINANCE**

CRS 02136 Grades 10-12 CR 1/2 Q 1 block  
This course introduces students to the process of planning and managing their personal finances. Real-world applications in money management, consumer credit, investing, tax strategies, home, vehicle, health, disability, and life insurance will be presented. An overview of the importance of long-term financial preparation will be analyzed through case studies.

## **PERSONAL FITNESS & LEISURE ACTIVITIES**

CRS 11366 Grades 10-12 CR 1/2 Q 1 block  
*Prerequisite: Fundamental PE credit with a 77 or higher.*  
Personal Fitness is designed to take the student through a comprehensive fitness unit. Students will learn how to maintain a healthy lifestyle by participating in a daily walking program in combination with a muscular strength and endurance program. A classroom component will cover a variety of topics to assist the student in their quest for lifetime wellness. Students will learn how to analyze body composition, how to properly warm-up and cool down, the

relationship between diet, exercise, and weight control, good nutritional practices, the effects of stress on health, and how to develop personal fitness plans. Students will also be introduced to lifetime leisure activities in which students engage in a variety of games. In doing so, students learn a wide variety of activities that promote living a healthy lifestyle and maintaining an optimal level of physical fitness. *Note: Students must see PE Teacher to sign-up for this course.*

## **PHOTOGRAPHY B & W AND COLOR DIGITAL**

CRS 07263 Grades 10-12 CR 1/2 Q 1 block  
Students will be introduced to the operation of the 35mm camera, light meters, telephoto and wide angle lenses, developing black and white film and enlarging black and white negatives. Color digital camera photography will be introduced along with computer assisted digital manipulation, touch-up, and the art of morphing images. There will be a series of teacher assigned topics and themes in which students will demonstrate their skill and creativity. A portfolio of the student's work is developed and presented. Possible career opportunities are also investigated.

## **PHYSICS**

CRS 12388 Grade 12 CR 1 S 1 block  
Basic Physics provides students with opportunities to understand the fundamental laws basic to all sciences. This involves an examination of the relationship between matter and energy and its effect on persons' everyday lives. Physics laboratory exercises are supplemented with practical problem solving activities requiring fundamental mathematics. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## **PHYSICS ENR**

CRS 12387 Grade 12 CR 1 S 1 block  
Physics offers students an opportunity to apply mathematics practically and theoretically while gaining knowledge of the natural laws which govern the universe. A problem-solving approach in laboratory experiences is used to complement classroom discussion on matter and energy and the relationships between the two. The topics of motion, force, and momentum are addressed and the discoveries of Galileo, Newton, and Einstein are explored. It is strongly recommended that trigonometry be studied prior to or concurrently with this course. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## **PHYSICS HONORS**

CRS 12389 Grade 12 CR 1 S 1 block  
This course will cover the same topics as Physics ENR but with a faster pace and greater depth. Emphasis will be placed on both independent and group projects. It is strongly recommended that students take Trigonometry H before this course. *Note: This class will fulfill the physical science or third science requirement for graduation.*

## **PLUMBING TECHNOLOGY 1**

CRS 14500 Grade 12 CR 2 Y 1 block  
*PREREQUISITE: Career and Technical Education application required.*

This program offers students the opportunity to learn valuable employment skills in a high demand and high wage field. In this age of concern for the protection of our environment, an understanding of the proper installation techniques for water, drainage, and heating systems is necessary for today's plumbers. Students will learn the proper installation and maintenance of these systems in the classroom and laboratory settings. Local, state, and national codes will be introduced and applied with hands-on lab activities. Successful completion of this two year program will allow the student to skip the first year of the NH Apprenticeship program leading up to licensure as a master plumber.

## PLUMBING TECHNOLOGY 2

CRS 14501 Grade 12 CR 2 Y 1 block  
*PREREQUISITE: Career and Technical Education application required, and successful completion of Plumbing Technology 1.*

The second year of this program provides students with a more in-depth study of water, drainage, and heating systems. Second year students will design and install these systems in the lab setting and possibly with professionals in the field. Local, state and national codes will be studied in depth and applied in the lab or job-site setting. Successful completion of this program will allow the student to skip the first year of the NH Apprenticeship program leading up to licensure as a master plumber.

## PRINCIPLES OF TECHNOLOGY

CRS 12394 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Geometry or Math Connections 2A.*

Principles of Technology is a course in applied science that is designed to prepare students more effectively for the advances in technology. It blends an understanding of basic principles with practices in practical applications. Emphasis will be placed on creative thinking and problem solving while having fun learning. Students with an interest in pursuing careers as technicians and/or interest in the engineering field are recommended to take this course. This is a foundation course for several CTE programs offered at the Richard W. Creteau Regional Technology Center.

## PSYCHOLOGY/SOCIOLOGY

CRS 13201 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Must have passed Civics or Global Studies.*

Students are given the opportunity to develop more effective understanding of the goals of psychology, the ways people behave and interact, where attitudes come from, social influences and their adjustment to society. These topics will be studied with reference to concrete experiences relevant to today's students. The second half of this course is a study of social experiences and human relationships. Considerable emphasis is placed upon issues, which affect individuals outside of the classroom, including potential problem areas such as marriage and divorce and crime and juvenile delinquency.

## PSYCHOLOGY/SOCIOLOGY ENR

CRS 13200 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Must have passed Civics or Global Studies.*

This is a fast-paced course with challenging exams and projects. The course is intended for students who have a desire to study the uniqueness and complexities of human thought and behavior. Some of the topics discussed will be an introduction to the topic of, the study of consciousness, thinking, problem solving, the nature of intelligence, motivation and emotion. The second half of this course is a fast-paced examination of many of the fundamental areas of sociology with emphasis placed upon individual research. The course helps students achieve a better understanding of the complex society in which they live and it helps them prepare for the challenge of further study in college.

## READING AND WRITING ENR

CRS 03189 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Teacher recommendation and a writing sample along with instructor's approval.*

This course enables students to read, write and study more efficiently at the high school level and better face the transition into heavy college loads. The first part of this course focuses on non-fiction writing. Content is emphasized through pre-writing, first draft activities, finding and narrowing subjects, gearing writing to different audiences, sensory perception and use of specific details. The reading section of this course will focus on analysis of non-fiction essays as writing models, developing independent reading skills and improving analytical skills in writing

responses to reading.

## RELATIONSHIPS

CRS 06236 Grades: 11-12 CR 1/2 Q 1 block  
Approach adulthood with a better understanding of how to be a happy, successful adult. This course includes the study of self-esteem, communication, relationships and other related aspects of adult life. The relationship between personal, family, and social issues will be examined through critical thinking projects. Some topics will be chosen by students.

## RESTAURANT CAREERS - EXPLORING

CRS 07268 Grade 9-12 CR 1/2 Q 1 block  
Restaurant Careers will offer students who have an interest in the food service industry the opportunity to explore possible careers. Such as chef, kitchen manager, front of house manager, server, host as well as catering opportunities. Students will also work periodically in the Tech Cafe.

## RESTAURANT MANAGEMENT 1

CRS 14300 Grade 11 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required.*

This program offers students the chance to work in a restaurant atmosphere while learning the different tasks of various professionals in the food and restaurant industry. Students will learn about safety and sanitation, professional cooking, the duties and responsibilities of the chef, prep cook, baker, host, server, and manager, as well as industry job seeking and keeping skills. Students will be responsible for the successful management of the Tech Cafe. Careers related to food service will be presented from a management perspective.

## RESTAURANT MANAGEMENT 2

CRS 14301 Grade 12 CR 2 Y block/year  
*PREREQUISITE: Career and Technical Education application required, and successful completion of Restaurant Management 1.*

This course is a continuation of Restaurant Management 1. This program offers students the chance to work in a restaurant atmosphere while learning the different tasks of various professionals in the food and restaurant industry. Students will learn about safety and sanitation, professional cooking, the duties and responsibilities of the chef, prep cook, baker, host, server, and manager, as well as industry job seeking and keeping skills. Students will be responsible for the successful management of the Tech Cafe. Careers related to food service will be presented from a management perspective.

## ROBOTICS 1

CRS 14550 Grade 11 CR 2 Y block/year  
Location: Somersworth  
*PREREQUISITE: CTE Application Required.*

This course introduces students to computer integrated manufacturing systems (Robotics). It combines computer knowledge with different manufacturing processes of today. Topics to be taught include: electricity, hydraulics, pneumatics, mechanical systems, CAD/CAM, CNC and robots. Students determine and measure system performance and make necessary adjustments and/or repairs while designing their own flexible manufacturing work cell. Robotics 2 students continue this study with emphasis on career goals. *Note: This class will fulfill the third science requirement for graduation.*

## ROBOTICS 2

CRS 14555 Grade 12 CR 2 Y block/year  
Location: Somersworth  
*PREREQUISITE: CTE Application Required.*

This course introduces students to computer integrated manufacturing systems (Robotics). It combines computer knowledge with different manufacturing processes of today. Topics to be taught include: electricity, hydraulics, pneumatics, mechanical systems, CAD/CAM, CNC and robots. Students determine and measure system perfor-

mance and make necessary adjustments and/or repairs while designing their own flexible manufacturing work cell. Robotics 2 students continue this study with emphasis on career goals.

## SENIOR EXITING CAREER PLANNING

CRS 16907 Grade 12 CR 1/2 Q 1 block  
This course is designed for seniors who intend to apply to a 2-year college with rolling admissions or technical college or who are planning direct entry into the workforce. Students will participate in the following activities: explore career options, set short-term and long-term goals, identify marketable skills, research the job market, practice interview skills, prepare job and college applications, prepare a cover letter, complete a resume, and prepare a portfolio for presentation. *Note: Offered second semester only.*

## SENIOR EXITING COLLEGE PLANNING ENR

CRS 16901 Grade 12 CR 1/2 Q block  
*PREREQUISITE: SAT or ACT test taken prior to September of senior year. Minimum 2.0 GPA*

This course is designed for seniors who are preparing to attain a 4-year college degree or higher. The seniors in this section will narrow their college choices, prepare for college interviews, write three college essays, finalize a minimum of three college applications, research scholarships and career options, and prepare a portfolio for presentation. Students applying for early action or early decision should notify guidance to ensure first quarter enrollment. *Note: Offered first semester only.*

## SMALL ENGINE TECHNOLOGY

CRS 07256 Grades 9-12 CR 1/2 Q 1 block  
Students will learn the fundamentals and operation of two and four cycle engines. They work on their own engines or choose to work on a lab engine. Instruction is given in the operation of engine electrical systems and oil, carburation, mechanical principles, differences in design, preventative maintenance and troubleshooting and consumer awareness on how to purchase new and used ATVs, chain saws, lawn mowers, motorcycles, snowmobiles, and other power equipment.

## SPANISH 1 ENR

CRS 05207 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Recommendation from current English teacher; enrollment in at least ENR level English.*

It is assumed that Spanish 1 students have not studied Spanish previously. Emphasis is placed on beginning grammar, speaking, reading and writing. The goals of this course is to prepare students Spanish 2 ENR.

## SPANISH 2 ENR

CRS 05208 Grades 9-12 CR 1 S 1 block  
*PREREQUISITE: Spanish 1 ENR* This course offers students the opportunity to further develop their skills in listening, writing, speaking, and reading Spanish, focusing on the present and preterite tenses, as well as the concept of reflexive verbs.

## SPANISH 3 HONORS

CRS 05209 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Spanish 2 ENR* Through exposure to many tenses and more advanced grammatical topics, students will learn to enhance their written and verbal communication. Reading a variety of literary works offer insight to the culture of the Spanish-speaking world.

## SPANISH 4 HONORS

CRS 05210 Grade 10-12 CR 1 S 1 block  
*PREREQUISITE: Spanish 3 Honors* A study of the Spanish-speaking population in the United States is the focus of this course. Communication skills are further developed through reading poetry, a short story, and a short novel. More advanced grammatical principles are taught and practiced by means of informal and formal writings. Classes are mostly conducted in Spanish.

## SPANISH 5 HONORS

CRS 05212 Grade 11-12 CR 1 S 1 block

*PREREQUISITE: Spanish 4 Honors*

Spanish 5 is a continuation of Spanish 4.

A study of the Spanish-speaking world outside the United States is the focus of this course. Students study and report on current events, produce a newspaper distributed to other students, and write a children's book. Advanced grammatical topics, including a study of the subjunctive mood, assist students in improving their spoken and written skills. Classes are mostly conducted in Spanish.

## SPANISH AP

CRS 05211 Grade 11-12 CR 2 Y 1 block

*PREREQUISITE: Completion of Spanish 5 Honors or Departmental recommendation.*

Spanish AP is a nationally standardized course. The use of language for active communication is emphasized to help the student develop, the ability to understand spoken Spanish in various contexts, Spanish vocabulary sufficiently ample for reading newspapers, magazine articles, and literary texts without the use of a dictionary. Students will gain the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken Spanish. Students may take the Advanced Placement Spanish Exam for college credit.

## SPORTS MEDICINE

CRS 11363 Grade 10-12 CR 1/2 Q 1 block

*PREREQUISITE: An 80 or better in Fundamental PE, "C" or better in Biology and permission from instructor.*

Sports medicine will be taught from the perspective of the athlete. It is both a writing and lab intensive course. Students will learn hands on skills such as palpation, joint taping, range of motion assessment, joint and muscle rehabilitation and more. The topics covered are healing, mechanisms, recognition, management, rehabilitation and prevention of injuries. Students will leave this course better prepared to pursue a career in sports medicine and provide a solid foundation for the understanding of preventing and caring for sports injuries. *Note: Students must see PE Teacher to sign-up for this course.*

## TAC.Math (Topics in Applied College Mathematics)

CRS 08337 Grade 12 CR 1 S 1 block

*PREREQUISITE: passing grade in Math Conn 3A, Accuplacer Elementary Algebra score above 62 and Accuplacer Arithmetic Score above 85*

This course is designed to expose the student to a wide range of general mathematics. Problem solving and critical thinking skills, along with the use of technology, will be emphasized as the student becomes highly involved in solving applied problems. Topics covered include number theory, number systems, functions and modeling, finance, geometry and measurement, and probability and statistics. **Note: This is a Running Start Course and students are eligible to receive college credit.**

## TEAM GAMES

CRS 11365 Grade 10-12 CR 1/2 Q 1 block

*PREREQUISITE: 77 or better in Fundamental PE*

Students will participate in a variety of popular team sports focusing on improving game skill, strategies, teamwork, officiating skills, and playing the "total" game. It is anticipated that after playing at this level, students will have the ability and desire for participation in recreational games throughout their lives. Activities may include soccer, volleyball, basketball, softball, or miscellaneous games. *Note: Students must see PE Teacher to sign-up for this course.*

## TELEVISION PRODUCTION 1

CRS 10360 Grade 9-12 CR 1/2 Q 1 block

This course is a quarter course that is offered for students who have an interest in the field of television production and media integration. In this hands-on course, students will experience first hand the ever changing

technology in the field of television production. Students will learn the basics of video and television production: camcorder and studio camera use, interviewing techniques, story boarding, digital non-linear editing, using the Casablanca Avio editing system, audio and video mixing, and post production. Students will also learn the importance of media literacy in our society. This course requires some after school and evening participation, as students will participate in field production crews covering special live events for future broadcast. Some of the productions may appear on the inter-school TV network, as well as Metrocast Channel 12.

## TELEVISION PRODUCTION 2

CRS 10362 Grade 9-12 CR 1 S 1 block

*PREREQUISITE: Received an 80 or better in Television Production 1.*

The purpose of this course is to experience first hand the ever-changing technology in the field of television production and media integration. This class is an extension of Television Production 1. The students will learn more advanced techniques of television production: camcorder and studio camera use, interview techniques, story boarding, analog and digital editing using Moviemaker software, audio, video mixing, and post production. During the semester, students will learn basic graphic design, directing, technical lighting, floor managing, and video playback. Knowledge of these elements will enable the students to support classroom teachers in various projects and assist in elementary and middle school programming. This class requires after school and evening participation. On a rotating basis, students will participate in field production crews covering special events live and/or taped for later broadcasting.

## THEATRE 1

CRS 10358 Grade 9-12 CR 1/2 Q 1 block

This course is designed for students interested in the field of theater. Students will learn about all aspects of theater including acting, speaking, music, choreography, set design, technical effects, lighting, make-up, costuming, auditions, directing, staging and blocking. Students will explore improvisation, building a character, preparing monologues and stage movement through individual and group projects. Prior experience in the theater is not necessary to participate in this class. *Note: This class will fulfill the fine arts requirement for graduation.*

## THEATRE 2

CRS 10359 Grade 10-12 CR 1/2 Q 1 block

*Prerequisite: Permission of instructor and Theatre 1.*

This course is designed for students interested in the field of theatre who have a strong desire to work on advanced level plays, comedies, improvisation and challenging theatrical projects. Students will prepare monologues, audition materials for college majors, technical plot books, set and costume designs and musical scores. Serious students are welcome to prepare for possible career majors in the field of theatre.

## TRIGONOMETRY ENR

CRS 08326 Grade 11, 12 CR 1 S 1 block

*PREREQUISITE: 77 average in Algebra 2 ENR or 93 average in Math Conn 3A.*

This course stresses a functions approach and the use of graphing calculators. Topics include: definitions, identities, equations, graphs, applications, inverse functions, functions of several angles, law of sines, law of cosines, polar coordinates and graphs, trig form of complex numbers and DeMoivre's Theorem. *Note: Students planning on a math-related career or who plan on taking Calculus in college are urged to elect both Trigonometry ENR and Advanced Math ENR. Students planning to take Calculus ENR as a senior must elect this course in their junior year.*

## TRIGONOMETRY H

CRS 08331 Grade 11-12 CR 1 S 1 block

*PREREQUISITE: 77 average in Algebra 2 H or recom-*

*mendation of the Algebra 2 ENR teacher.*

This course stresses a functions approach and the use of graphing calculators. Topics include: definitions, identities, equations, graphs, applications, inverse functions, law of sines, and law of cosines. Additional topics include trig form of complex numbers, DeMoivre's Theorem and vectors

## US HISTORY

CRS 13424 Grade 11 CR 1 S 1 block

This course surveys U.S. History from reconstruction after the Civil War to the present day. This course emphasizes economics, domestic and foreign policy problems which continue to have an impact on contemporary America. The students are made aware of the change from isolationism to internationalism. Historical events are studied in relationship to contemporary lifestyles and problems. *Note: This class will fulfill the US History requirement for graduation.*

## US HISTORY AP

CRS 13404 Grade 10-12 CR 2 Y 2 blocks

*PREREQUISITE: Recommendation of sophomore English (Honors or ENR) teacher, previous high school history teacher (if applicable) and approval of the Advanced Placement history teacher.*

This course is a nationally standardized course for advanced students. Some students may earn credit for college history after having completed this course. This fast-paced overview of U.S. history is designed to stimulate and challenge students who are particularly interested in history. The course examines the causes and effects of historical events and the social conditions of the last three centuries. Completion of summer assignments is required. The assignments must be picked up before the end of the previous school year. Outside reading, research projects each quarter and participation in class discussion of historical and current events is mandatory. The course culminates with the Advanced Placement United States History Exam, taken at students' expense. *Note: This class will fulfill the US History requirement for graduation.*

## US HISTORY ENR

CRS 13423 Grade 11 CR 1 S 1 block

This course surveys U.S. History from reconstruction after the Civil War to the present day. This course emphasizes economics, domestic and foreign policy problems which continue to have an impact on contemporary America. The students are made aware of the change from isolationism to internationalism. Term papers and essays are required. *Note: This class will fulfill the US History requirement for graduation.*

## VIRTUAL HIGH SCHOOL (VHS)

CRS (See your Guidance Counselor) Grade 10-12

Virtual High School (VHS) is a non-profit consortium of schools that offer full-semester online courses to the participating school's students. VHS is presently offering over 200 full semester courses in Arts, Business, English Language Arts, Foreign Language, Life Skills, Math, Science, Social Studies and Technology at the AP, Honors and ENR levels.

Students participating in VHS NetCourses not only receive rigorous course content in their courses; they also have the opportunity to participate with other students from other states in a virtual classroom learning experience. Students who take online courses are gaining many skills such as multimedia presentation skills, online collaborative and communication, assessment of online resources, and online team-building skills that are essential to the 21st Century learner.

VHS also offers AP courses and Pre-AP courses.

### **VOICE LAB**

CRS 10367 Grade 10-12 CR 1/2 Q 1 block  
Students who enroll in this course should have a serious desire to learn how to sing in a healthy manner, read music, and perform a wide variety of choral literature. Students will be asked to demonstrate their music literacy skills through written and aural exams. This class is a performance based class where students will sing and be critiqued by their peers. Students will gain self confidence and experience in performance in this class.

### **VOICE LAB 2**

CRS 10370 Grade 10-12 CR 1/2 Q 1 block  
Voice Lab 2 is a continuation of Voice Lab 1. All interested students must have at least a B average in Voice Lab 1 to continue with this course as well as permission of the instructor. Vocal repertoire will be more demanding and performance will be more frequent. A serious desire to study privately is highly recommended.

### **WEBPAGE DESIGN 1 - INTRO TO HTML**

CRS 02132 Grades 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: Final grade of 80 or better in Microsoft Office 1, Computer Software Applications, Word Processing, Excel, or Database Management.*  
This course will cover basic topics relating to the Internet. Students will learn the fundamentals of HTML (Hyper Text Markup Language), the programming language used to create Web Pages. Web pages will be created with a text editor to include inserting hyperlinks and images. Upon completion of the course, each student will have a published website.

### **WEBPAGE DESIGN 2 - ADVANCED HTML**

CRS 02121 Grades 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: Final grade of 80 or better in WebPage Design 1 - Intro to HTML.*  
This course will cover advanced HTML features including forms and image maps. Other topics will include CSS, JavaScript, and other development/editing tools. Students will have an opportunity to develop and/or maintain "real" websites for a variety of "clients".

### **WOMEN'S HEALTH**

CRS 06223 Grades 10-12 CR 1/2 Q 1 block  
*PREREQUISITE: Passing grade in Health.*  
Students will explore the physical, social, emotional and intellectual issues that affect women in today's society. The course will utilize historical perspectives on the role of women in American society in order to generate an understanding of the female role as it evolves into the next century. Topics will include career and social options, psychological foundations of behavior, reproductive/relationship issues, childbearing/parenting concerns, and chronic and degenerative disease associated with women (e.g. breast cancer, osteoporosis). A strong emphasis will be placed on personal health, both physical and emotional, which will encourage the development of competent, confident women.

### **WOMEN IN ENGINEERING / DESIGN**

CRS 07267 Grades 10-12 CR 1/2 Q 1 block  
Engineers solve problems to make life better, whether building a better house or mousetrap. This course is designed to introduce women to the world of engineering / architecture. With the use of computer aided drafting (CAD) and computer aided manufacturing (CAM) students will learn the language of the industry. Students will use engineering processes and drafting techniques to bring ideas to fruition.

### **WOODWORKING TECHNOLOGY 1**

CRS 07257 Grades 9-12 CR 1/2 Q 1 block

Students are introduced to woodworking through a highly motivating hands-on approach. Problem-solving skills through individual and group activities associated with planning, design, layout, and manufacturing of wood products are used. Consumer and environmental issues are discussed and career opportunities are explored. Safety instruction related to the proper use and care of hand and power tools is emphasized in this course.

### **WOODWORKING TECHNOLOGY 2**

CRS 07258 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: Woodworking Technology 1*  
Students will use their previously acquired problem-solving skills to construct and finish several furniture type projects. Quality construction is emphasized as students use advanced joinery, assembly, and finishing techniques. Lathe work will be included. Safety instruction related to the proper use and care of hand and power driven tools is reinforced and career opportunities are explored in this course. This course would also be recommended for students interested in Vocational Construction Trades Programs.

### **WOODWORKING TECHNOLOGY 3**

CRS 07259 Grades 11-12 CR 1 S 1 block  
*PREREQUISITE: Woodworking Technology 2*  
This course is open to all students who are interested in furthering their woodworking knowledge. The emphasis is placed on furniture design and the study of various styles of period furniture. Special attention will be given to precision joinery, fabrication and finishing methods. The student will construct several quality cabinet projects. Lathe work will be included. Safety instruction related to equipment and materials handling will be utilized.

### **WORK EXPERIENCE**

Grades 9-12 CR 1/2 Q

*Location: SHS Rochester & Off-site*

Do you want a real-world, hands-on learning experience that will prepare you for long-term career success? Are you interested in: 1) practicing interview skills 2) learning to prepare resumes and cover letters. Work Experience is intended to provide job seeking and keeping skills in career areas of interest. Once you have successfully obtained a position at a local business, you will focus on developing occupational skills and concepts specific to your work site. These opportunities may be paid or unpaid. All students must see the School-to-Career Coordinator and/or the Student Services Coordinator in the Career Support Center in order to apply for this program.

### **YEARBOOK ENR**

CRS 03176 Grades 10-12 CR 1 S 1 block  
*PREREQUISITE: A B or better in English and application submitted to Mrs. Ridley.*  
Students enrolled in this course will develop an understanding of the many aspects of producing the SHS Yearbook. Some of the many aspects are: marketing, advertising, interviewing, accounting, editing, final cropping, designing layouts, and cooperative learning skills.