

Alphabetical Listing of Course Descriptions

ACCOUNTING 1A

CRS 070011 Grades 10-11 CR 1 S 1 block
What is accounting? Accounting is a “special” language that offers information about the financial position of a business. It provides an understanding of the accounting cycle from recording business transactions for a service business 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 1B ENR

CRS 070032 Grades 10-11 CR 1 S 1 block
PREREQUISITE: *Accounting 1*
In this course students will continue to record business transactions for a merchandising business through the preparation of financial statements. Other topics to be covered include payroll, petty cash, and depreciation. Simulated financial activities as well as computerized problems will be utilized. Students interested in pursuing careers in business administration or management should enroll in Accounting. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

Note: This is a Running Start Course and students are eligible to receive college credit.

ADVANCED CARDIO- FITNESS

CRS 120031 Grade 9-12 CR 1/2 Q 1 block
This course is designed to use the introductory information given to freshman and pick up where Fundamental Physical Education left off. As a class, we will explore each area of indoor cardio to gain a thorough understanding of what a yoga, step or kick boxing class entails. In addition to these three areas, students will also explore activities including but not limited to, pilates, tae-bo, static and dynamic flexibility, circuit training and cardio dance. Each week will include three days of cardio with two days of weight training work to gain a more rounded fitness regimen. Students in this course will exercise strenuously to improve their current fitness level. Students will learn the fitness fundamental that will enable them to design and critique individualized aerobic and weight training regimens. Students will be quizzed through skill demonstration as well as written understanding of most activity principles. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

ADVANCED CARDIO- FITNESS 2

CRS 120221 Grade 9-12 CR 1/2 Q 1 block
This advanced level course will include both an aerobic component and a weight training component. As a class, we will explore many principles of outdoor cardiovascular fitness that will enable students to analyze and critique their own fitness level, design a beginner level training regimen and be able to add progressions to keep their bodies challenged and in shape. Students will exercise strenuously to improve their current fitness level. This course is great for pre-season athletes who would like to get a head start to a great season. Through a series of goal setting seminars, students looking to improve their fitness and athletes alike can take the right steps towards planning to work hard and seeing their goals become reality. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

ADVANCED CLIMBING

CRS 120191 Grade 9-12 CR 1/2 Q 1 block
Prerequisite: *Fundamental PE*
The focus of this course will be climbing and belaying. Students will engage in a high paced adventure process – ice breakers, initiatives, team building, trust, knots, belaying, and climbing. They will build a safe class community that will promote high element challenges. Students in this class are expected to attempt climbs. Approximately

half of the quarter is dedicated to climbing. After taking this class students will be prepared to participate in indoor climbing at offsite locations. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

ADVANCED CONDITIONING

CRS 120051 Grade 9-12 CR 1/2 Q 1 block
This course includes a weight training component (3 times/week) in combination with an aerobic/anaerobic activity (2 times per week). Students will pick up where Fundamental Physical Education 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 personal fitness. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

ADVANCED MATH ENR

CRS 020192 Grades 11-12 CR 1 S 1 block
PREREQUISITE: *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, and sequence and series. This course completes the foundation for the study of Calculus ENR.

ADVANCED MATH H

CRS 020193 Grade 11-12 CR 1 S 1 block
PREREQUISITE: *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 120071 Grade 9-12 CR 1/2 Q 1 block
Prerequisite: *Fundamental PE*
Adventure Challenge is designed for students to push themselves beyond preconceived limits in order to develop self confidence. Team building, problem solving, and trust activities will be emphasized within this course. Much additional time will be dedicated towards goal setting, developing climbing & belaying techniques, safety management, and mastering low and high elements. Students will be expected to engage in discussion in order to promote leadership development as well as participate in the act of climbing on a daily basis in order to fulfill course requirements. After taking this class students will be prepared to participate in indoor climbing at offsite locations. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

ALGEBRA 1A

CRS 020071 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. Algebra 1A covers Chapters 1-4 of CME Algebra 1. Topics include: arithmetic to algebra, expressions and equations, graphs and lines. **Note: Students that successfully complete Algebra 1A and 1B will have covered the concepts of Algebra 1.**

ALGEBRA 1B

CRS 020091 Grades 9-12 CR 1 S 1 block
Prerequisite: *Algebra 1A*
A Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. This course expands on the ideas learned in Algebra 1A. . Algebra 1B covers Chapters 5-8 of CME Algebra 1. Topics include: introduction to functions, exponents and radicals, polynomials and quadratics. **Note: Students that successfully complete Algebra 1A and 1B will have covered the concepts of Algebra 1.**

ALGEBRA 1B ENR

CRS 020092 Grades 9-10 CR 1 S 1 block
PREREQUISITE: *Algebra 1A ENR*
This course covers Chapters 7-13 of UCSMP Algebra 1. Topics include: using Algebra to describe patterns of change, powers and roots, quadratic equations and functions, linear systems, polynomials, and using Algebra to prove. **Note: Students are recommended for Algebra 1B ENR by their eighth grade math teacher after successful completion of Algebra 1A ENR.**

ALGEBRA 1 H

CRS 020093 Grade 9 CR 1 S 1 block
PREREQUISITE: *Recommendation of 8th grade math teacher.*
This course covers Chapters 7-13 of UCSMP Algebra 1 and Chapters 1-2 of UCSMP Geometry. Topics include: using Algebra to describe patterns of change, powers and roots, quadratic equations and functions, linear systems, polynomials, using Algebra to prove, points and lines and the language and logic of Geometry. **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

CRS 020151 Grade 11-12 CR 1 S 1 block
PREREQUISITE: *Geometry B.*
A Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. Algebra 2 begins 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 Algebra 2 will have met the minimum math requirement for admission to UNH in a non math related major**

ALGEBRA 2 ENR

CRS 020152 Grades 10-11 CR 1 S 1 block
PREREQUISITE: *Geometry ENR*
This course covers Chapters 1-9 and 11 of UCSMP Advanced Algebra. Topics include: functions, variation and graphs, linear functions and sequences, matrices, systems, quadratic functions, powers, inverses and radicals, exponential and logarithmic functions and polynomials.

ALGEBRA 2 H

CRS 020153 Grades: 10 CR 1 S 1 block
PREREQUISITE: *Geometry H*
This course covers Chapters 1-9 and 11-13 of UCSMP Advanced Algebra. Topics include: functions, variation and graphs, linear functions and sequences, matrices, systems, quadratic functions, powers, inverses and radicals, exponential and logarithmic functions, polynomials, quadratic relations, series, and combinations. **Note: Algebra 2 Honors is the prerequisite for Trigonometry Honors.**

ANATOMY AND PHYSIOLOGY HNRS

CRS 030012 Grades 11-12 CR1 S 1 block
PREREQUISITE: Biology

This intensive course explores the structure and function of the human body in detail. Emphasis is placed on homeostatic mechanisms from the cellular to the organism level. The student is expected to relate classroom learning to one book and other outside reading material and to synthesize learning through writing and effective discussion and presentation.

ANIMAL SCIENCE 1

CRS 080011 Grade 11 CR 2 S two blocks

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: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

ANIMAL SCIENCE 2

CRS 080031 Grade 12 CR 2 Y block/year

Location: Dover

PREREQUISITE: Career and Technical Education application required, 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

ARCHITECTURAL & ENGINEERING TECHNOLOGY 1 (AutoCAD Drafting)

CRS 080051 Grade 11 CR 2 Y block/year
PREREQUISITE: Career and Technical Education application required.

ENR credit option is available for this course.

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.**

Engineering by Design™

ARCHITECTURAL & ENGINEERING TECHNOLOGY 2 (AutoCAD Drafting)

CRS 080071 Grade 12 CR 2 Y block/year
PREREQUISITE: Career and Technical Education application required, Architectural & Engineering Technology 1.

ENR credit option is available for this course.

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. Engineering by Design™ see pg23

AROUND THE WORLD IN 45 DAYS

CRS 010081 Grades 9-12 CR 1/2 Q 1 block

In this course students will read and discuss a variety of the world's great writings, both fiction and non-fiction. We will study countries, cultures, authors, literature, art, food, song, and ethnic dance. Students will complete a four to five page research paper.

ART 1

CRS 060011 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 060031 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 060051 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 060053 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 060071 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 060073 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 060094 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 060114 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 060134 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 050011 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.

AS 210 - FLIGHT SCIENCE

CRS 050051 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.

AS 300 - SPACE EXPLORATION

CRS 050071 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. This course can be a substitute for Moving Earth and the Stars Above.

AS 400 - ORGANIZATION AND MANAGEMENT

CRS 050091 Grade 11-12 CR 1 S 1 block
PREREQUISITE: 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 050111 Grades 9-12 CR 1 S 1 block
PREREQUISITE: Students must be enrolled in any other AFJROTC course during the school year.
This course concentrates on the elements of Air Force military drill and ceremonial procedures. Students learn teamwork and leadership. The course serves as the basis for the SHS AFJROTC competition drill teams. Students may take the course two times for credit. During AS 460A, students learn the fundamentals of drill and follow the direction and leadership of others. During AS 460B, students train as leaders and drill team commanders.

AS 500 - AVIATION GROUND SCHOOL

CRS 050131 Grades 11-12 CR 1 S 1 block
PREREQUISITE: Two years in JROTC and AS-210
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.

AS 600 - SUMMER LEADERSHIP SCHOOL

CRS 050132 Grades 10-12 CR 1/2 S 1 block
PREREQUISITE: One JROTC class.
Students are exposed to advanced leadership material and concepts during an intensive five day/four night encampment at the New Hampshire Army National Guard Training Site in Center Strafford, NH. Students learn and experience leadership and teamwork through hands-on activities including Group Leadership Problems (GLPs), athletics and military drill. Spaulding students join other Air Force JROTC students from Salem, Alvirne, and Bedford High Schools. **NOTE: This class is not one of your eight credit classes. Enrollment applications are submitted through the AFJROTC instructors in room 103.**

AUTO COLLISION 1

CRS 080091 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

AUTO COLLISION 2

CRS 080111 Grade 12 CR 3 Y
Location: Dover (two blocks fall, one block spring)
PREREQUISITE: Career and Technical Education application required, 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

AUTOMOTIVE TECHNOLOGY 1

CRS 080131 Grade 11 CR 2 Y 1 block
PREREQUISITE: Career and Technical Education application required.
ENR credit option is available for this course.

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 080151 Grade 12 CR 2 Y 1 block
PREREQUISITE: Career and Technical Education application required, Auto Technology 1.
ENR credit option is available for this course.

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 110011 Grades 9-12 CR 1 Y mini block
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 PROFESSIONAL, THE

CRS 070051 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.

ENR credit option is available for this course.

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. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

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.

BIOLOGY: UNDERSTANDING LIFE

CRS 030241 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology class students will examine the essential concepts of life. This laboratory orientated course introduces students to biological principles and concepts of living things including cellular biology, genetics, natural selection and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

BIOLOGY: UNDERSTANDING LIFE ENR

CRS 030242 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology class students will examine the essential concepts of life. This laboratory orientated course introduces students to biological principles and concepts of living things including cellular biology, genetics, natural selection and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

BIOLOGY: UNDERSTANDING LIFE HONORS

CRS 030243 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology class students will examine the essential concepts of life. This laboratory orientated course introduces students to biological principles and concepts of living things including cellular biology, genetics, natural selection and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method. A summer reading assignment accompanies this course. The assignment is to be passed in the first week of school to your first biology teacher.

BIOLOGY: WHAT CAN WE DO?

CRS 030261 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology course students are introduced to the principles of environmental science and ecology through laboratory experiences. The interdisciplinary nature in this course will be emphasized by not only looking at the scientific aspect of Environmental issues, but also their social and political aspects. Emphasis will be put on the central theme of sustainability and understanding the role humans play in their environment.

BIOLOGY: WHAT CAN WE DO? ENR

CRS 030262 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology course students are introduced to the principles of environmental science and ecology through laboratory experiences. The interdisciplinary nature in this course will be emphasized by not only looking at the scientific aspect of environmental issues, but also their social and political aspects. Emphasis will be put on the central theme of sustainability and understanding the role humans play in their environment.

BIOLOGY: WHAT CAN WE DO? HONORS

CRS 030263 Grades 10 CR 1/2 Q 1 block
In this 1/2 credit required biology course students are introduced to the principles of environmental science and ecology through laboratory experiences. The interdisciplinary nature in this course will be emphasized by not only looking at the scientific aspect of environmental issues, but also their social and political aspects. Emphasis will be put on the central theme of sustainability and understanding the role humans play in their environment. A summer reading assignment accompanies this course. The assignment is to be passed in the first week of school to your first biology teacher.

BIOLOGY AP

CRS 030044 Grades 11-12 CR 2 Y 1 Block
PREREQUISITE: *Enriched or Honors Biology, Enriched or Honors Chemistry.*

This full year course builds on the topics covered in Biology: What Can We Do, and Understanding Life that are traditionally taken as a sophomore. It will include classification, microbiology, ecology, cell structure and function, molecular biology, biotechnology, genetics, physiology and behavior. The course adheres to the Advanced Placement Biology curriculum and includes college level laboratory exercises. For colleges and universities, this is an 8 credit course that may satisfy the requirements of Bio I and II upon successful completion of the required Advanced Placement Exam in May.

BUILDING TRADES/CONSTRUCTION 1

CRS 080171 Grade 11 CR 2 Y block/year
Location: Somersworth
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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

BUILDING TRADES/CONSTRUCTION 2

CRS 080191 Grade 12 CR 2 Y block/year
Location: Somersworth
PREREQUISITE: *CTE application required, and BT 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

BUSINESS LAW

CRS 070111 Grades: 11-12 CR 1 S 1 block
Business Law will give students an understanding of how law developed. They will also gain an understanding of the court system and the difference between Civil and Criminal Law. Students will gain an understanding of how to enter a contract, and the essential elements to make a contract enforceable. Students will gain actual experience in the courtroom by role-playing criminal and civil suits through mock trial experience. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

BUSINESS & REAL WORLD APPLICATIONS 1

CRS 070131 Grade 10-12 CR 1 S 1 block
ENR credit option is available for this course.
Students will be introduced to the concepts and methods

of business communication and use business technology to develop effective communication skills. They will be exposed to the skills needed to make sound personal finance decisions as young adults. Students will also learn to develop and apply good decision-making and problem solving skills necessary for success in today's workplace. Career planning, creating an effective resume, and interviewing skills will be a final product of this course. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, and conferences.

BUSINESS & REAL WORLD APPLICATIONS 2

CRS 070152 Grade 11-12 CR 2 Y 1 block
PREREQUISITE: *Career and Technical Education application required and Business & Real World Applications 1. ENR credit option is available for this course.*

This course reinforces concepts learned in Business and Real World Applications 1. In addition, students will understand the importance of professional development, networking, leadership and personal growth to enhance career success. They will also analyze the characteristics, motivations, and behaviors of consumers and the influence of external factors on marketing. Leadership and human relations skills will be further developed through cooperative learning activities. In addition, they will use workplace simulations and develop human relations presentations that are designed to build a solid foundation in the business world. 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. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

CALCULUS AP

CRS 020214 Grades 12 CR 1 S 1 block
PREREQUISITE: *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 020212 Grade 12 CR 1 S 1 block
PREREQUISITE: *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 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 may be eligible to receive college credit. A passing grade on the Accuplacer College Level Math Test is required as a condition to registration for college credit. This test should be taken prior to completion of Advanced Math.**

CAR CARE & MAINTENANCE

CRS 140011 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 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 levels.
- * 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.

CERAMICS & SCULPTURE

CRS 060191 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.

CHEMISTRY

CRS 030051 Grade 11-12 CR 1 S 1 block
PREREQUISITE: *Algebra 1A and 1B.*

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.

CHEMISTRY ENR

CRS 030052 Grade 11-12 CR 1 S 1 block
PREREQUISITE: *Algebra 1A&B ENR 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.

CHEMISTRY HONORS

CRS 030053 Grade 11-12 CR 1 S 1 block
PREREQUISITE: *Competent in current math class.*
This course studies the same topics as Chemistry ENR 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.

CHEMISTRY MATTERS

CRS 030201 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will examine the essential concepts of chemistry. This will include atomic structure and interactions, the study of matter and its organization, and universal forces. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

CHEMISTRY MATTERS ENR

CRS 030202 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will examine the essential concepts of chemistry. This will include atomic structure and interactions, the study of matter and its organization, and universal forces. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

CHEMISTRY MATTERS HONORS

CRS 030203 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will examine the essential concepts of chemistry. This will include atomic structure and interactions, the study of matter and its organization, and universal forces. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

CHILD DEVELOPMENT

CRS 090011 Grades: 10-12 CR 1 S 1 block
PREREQUISITE: Health
Learn how life begins and follow the physical, emotional, social and intellectual development of a child through age 1. Students will be introduced to child development theorists and their contributions to the study of child development. Other topics covered will be the family structure, conception, prenatal development, labor and birth, and all areas of development through age 1. Students may also be given the opportunity to take home the baby simulator.

CHILDREN'S LITERATURE

CRS 010171 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 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 110031 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 040031 Grades 9-12 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.**

CIVICS ENR

CRS 040032 Grades 9-12 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.**

CNC/CAM TECHNOLOGY

CRS 140021 Grade 10-12 CR 1 S 1 block
ENR credit option is available for this course.
Students will learn the technology of programming machines to manufacture parts. Learning G Codes and MasterCam software the student will receive the fundamentals to continue onto Machine/Engineering Technology and other advanced programs. Topics include: Safety, computer numerical control of machinery, setup and operation of CNC machinery, introduction to programming of CNC machinery, introduction to CAD/CAM. This course is suited for those considering entering the manufacturing/engineering field or those wanting to explore programming as it relates to manufacturing. **Engineering by Design™** see pg23

COACHING/OFFICIATING

CRS120291 Grade 9-12 CR 1/2 Q 1 block
Topics covered will range from scheduling to psychological aspects of injuries. How coaches work with athletes, supervisors, parents and officials. The importance of knowing the rules and how to help work within the rules to maximize your teams advantage. Finally students will need to put together practice routines from preseason to post season. Video will be used to discuss bad calls, make up calls, and close calls. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

COLLABORATIVE ART

CRS 060141 Grades 10-12 CR 1/2 Q 1 block
PREREQUISITE: Regular Ed - Art 1 and application to Art Department. Special Education students will be selected by their IEP team.
This class provides an exciting opportunity for students to share art. In this course a regular education student will be paired with a special education student to collaborate on art assignments. Each will contribute to the design and production of a variety of art works. There will be both jointly and independently created art works. **Note: This class will fulfill the fine arts requirement for graduation. This class may be taken more than once.**

COLLABORATIVE PE

CRS 120301 Grades 9-12 CR 1/2 Q 1 block
Prerequisite: Regular Ed - Fund PE and applications to PE dept. Special Education students will be selected by their IEP team.
Students will learn how to communicate and work with individuals from a variety of back grounds. A variety of skill levels will be presented for students to work with, and make the appropriate modifications for each activity. A variety of skill sets will be presented, including some adventure challenges. Students should come prepared to take a leadership role, actively engaging each other in the activity, and teaching each other the various skill sets offered. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

COLLEGE COMPOSITION ENR

CRS 010092 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. Note: This class will fulfill the English 4 requirement for graduation.**

COMMERCIAL ART

CRS 060151 Grades 9-12 CR 1 S 1 block
PREREQUISITE: Art 1, computer skills recommended
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 TECHNOLOGY 1

CRS 080251 Grades 11 CR 2 Y blocks/year
PREREQUISITE: Career and Technical Education Application Required. ENR credit option is available for this course.
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.

COMPUTER TECHNOLOGY 2

CRS 080271 Grade 12 CR 2 Y blocks/year
PREREQUISITE: Career and Technical Education application required, and CT 1. ENR credit option is available for this course.
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 030061 Grades 11-12 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.

CONTEMPORARY PROBLEMS HONORS

CRS 040053 Grade 12 CR 1 S 1 block
PREREQUISITE: Psychology/Sociology ENR or US History ENR and Teacher recommendation.
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 090031 Grades 11-12 CR 1/2 Q 1 block
PREREQUISITE: May not have taken Exploring Foods or International Foods or Cooking for Singles semester class.

Upperclass students, soon you will be on your own. Learn to create and cook appetizing meals while acquiring new skills in the areas of meal preparation, planning and nutrition. While learning fundamental cooking techniques, you will also learn how to create balanced, nutritious meals and explore the science of cooking.

COOPERATIVE EDUCATION

Please see School-to-Career Coordinator
Location: Rochester, Somersworth, Dover

PREREQUISITE: Application required. Must be enrolled in a 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 080291 Grade 10-11 CR 2 Y 1 block/year
Location: Dover

PREREQUISITE: Career and Technical Education application required. See Write-up below

COSMETOLOGY 2

CRS 080311 Grade 11-12 CR 4 Y 2 block/year

Location: Dover

PREREQUISITE: Career and Technical Education application required, Cosmetology 1. See Write-up below

COSMETOLOGY 3

CRS 080331 Grade 12 CR 4 Y 2 block/year

Location: Dover

PREREQUISITE: Career and Technical Education application required, 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 consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

CREATIVE METAL WORK

CRS 140031 Grades 9-11 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 090051 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 090071 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Creative Stitching 1 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.

CREATIVE WRITING / WRITING WORKSHOP

CRS 010301 Grade 12 CR 1 S 1 block
This course is designed for the student who enjoys creative expression through the written word. Students create original fiction and poetry as well as other creative forms such as personal essays. A writing workshop approach is utilized to emphasize writing as a process, including peer editing, teacher commentary and multiple drafts. Course materials include writing samples from students as well as published sources for each type of writing. To enhance their own skills as writers, students will also engage in extensive reading.

Texts: The Things They Carried, The Color Purple, The Perks of Being a Wall Flower, Fahrenheit 451, Freedom Writers. Selections also from among Writing Down the Bones, What a Writer Needs, On Writing, Strunk and White's Elements of Style, Wild Mind, selected essays, short fiction, plays/radio plays, non-fiction and various supplemental media. **Note: This course can replace English 4.**

CULINARY ARTS 1

CRS 080351 Grade 11 CR 2 Y block/year
Location: Somersworth

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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

CULINARY ARTS 2

CRS 080371 Grade 12 CR 2 Y block/year
Location: Somersworth

PREREQUISITE: Career and Technical Education application required, 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of**

high school credits to graduate in four years.

CURRENT ISSUES

CRS 040051 Grade 11-12 CR 1 S 1 block
PREREQUISITE: US History and English.

This course emphasizes active discussion of the major issues in our society, both global and national. Students are expected to do research into select topics to gain a greater insight into these current issues. The course includes evaluation of the current events related to these issues. Emphasis is placed on persuasive speech. **Note: This class will fulfill the global studies requirement for graduation.**

DANCE

CRS 110051 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 080391 Grade 11 CR 2 Y block/year

Location: Somersworth

PREREQUISITE: Career and Technical Education application required. See Write-up below

DIGITAL MEDIA 2

CRS 080411 Grade 12 CR 2 Y block/year

Location: Somersworth

PREREQUISITE: Career and Technical Education application required, and 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

DRAFTING TECHNOLOGY: CAD (COMPUTER AIDED DRAFTING)

CRS 140071 Grades 10-11 CR 1 S 1 block
ENR credit option is available for this course.

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. **Engineering by Design™** see pg23

EARLY CHILDHOOD EDUCATION 1

CRS 080431 Grade 11 CR 2 Y block/year
PREREQUISITE: Career and Technical Education application required.

ENR credit option is available for this course.

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 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 080451 Grade 12 CR 2 Y block/year
PREREQUISITE: *Career and Technical Education application required, and Early Childhood Education 1, as well as an interview.*

ENR credit option is available for this course.

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 appropriately care for and educate children. For those furthering their education, articulation credits are available with 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 040071 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 040072 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 080471 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: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

ELECTRICAL TECHNOLOGY 2

CRS 080491 Grade 12 CR 3 Y block/year
Location: Dover (two blocks fall, one block spring)
PREREQUISITE: *Career and Technical Education application required and 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

ELECTRICITY - EXPLORING

CRS 140091 Grades 9-11 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.

EMPLOYMENT EXPERIENCE

CRS 130250 Grades 11-12 CR 1 S 1 block
Employment Experience is a semester long class designed to provide students with realistic classroom opportunities to practice the skills, knowledge and expectations that a potential employer would require to hire a prospective employee. Through career learning, students will be better prepared to take responsibility for their own futures.

Note: Placement is made by IEP team decision.

ENGLISH 1

CRS 010011 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 010012 Grade 9 CR 1 S 1 block
PREREQUISITE: *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*, and *Great Expectations*.
Note: Summer reading is required for this class.

ENGLISH 1 HONORS

CRS 010013 Grade 9 CR 1 S 1 block
PREREQUISITE: *Teacher recommendation*
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 010031 Grade 10 CR 1 S 1 block
PREREQUISITE: *English 1*
English 2 includes a study of grammar, usage & mechan-

ics, 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 010032 Grade 10 CR 1 S 1 block
PREREQUISITE: *English 1 ENR*
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 is required for this class.

ENGLISH 2 HONORS

CRS 010033 Grade 10 CR 1 S 1 block
PREREQUISITE: *English 1 Honors*
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 for this class.

ENGLISH 3

CRS 010051 Grade 11 CR 1 S 1 block
PREREQUISITE: *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 010052 Grade 11 CR 1 S 1 block
PREREQUISITE: *English 2 ENR*
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 is required for this class.

ENGLISH 3 HONORS

CRS 010053 Grade 11 CR 1 S 1 block
PREREQUISITE: *English 2HNRS*
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 for this class.**

ENGLISH 4

CRS 010071 Grade 12 CR 1 S 1 block
PREREQUISITE: *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 010072 Grade 12 CR 1 S 1 block
PREREQUISITE: English 3 ENR

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 is required for this class.

ENGLISH LANG. AND COMPOSITION AP

CRS 010074 Grade 12 CR 2 Y 1 block
PREREQUISITE: Departmental recommendation, English 3 Honors or English 3 ENR.

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 130051 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 130031 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 130011 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 030071 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 pop-

ulation, land use, energy, food supplies, pollution and solid wastes are topics that will be studied. Students will be responsible for a community service project.

ENVIRONMENTAL SCIENCE ENR

CRS 030072 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.

ENVIRONMENTAL SCIENCE HONORS

CRS 030073 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.

EQUINE SCIENCE 2

CRS 080041 Grade 12 CR 4 Y 2 blocks/year
Location: Dover

PREREQUISITE: Career and Technical Education application required, Animal Science 1.

Students choosing the Equine Science 2 option focus on equine veterinary care, horse training, horse mastership, riding form, and function, stable management, and equine industry careers. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

EXPLORING CHILDHOOD

CRS 090111 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 040091 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. 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 090131 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Intro to Foods 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 150071 Grades 10-12 CR 1/2 Q 1 block
PREREQUISITE: Career and Technical Education Application Required.

ENR credit option is available for this course.

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 23 for more information. Additionally, students completing FEA course one and two may apply for Project Running Start Credit.

FEA - PRACTICING THE ART OF TEACHING

CRS 150091 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.

ENR credit option is available for this course.

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. 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 23 for more information.**

FILM STUDIES

CRS 010111 Grades 10-12 CR 1 S 1 block
Film Studies involves the extensive analyzing and appreciating of films, as well as different components that make up a film. The course is comprised of genres of film and films that have received critical acclaim. Considerable time will be devoted to writing about films viewed in class, as well as classroom discussions and projects related to each film viewed.

FLORAL DESIGN - INTRODUCTORY

CRS 140111 Grade 9-11 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 100012 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. Emphasis is placed on beginning grammar, speaking, reading, writing and listening comprehension. The highlight of French 1 is the food unit where one learns to order in a café, researches French dishes and prepares them for the class.

FRENCH 2 ENR

CRS 100032 Grades: 9-12 CR 1 S 1 block
PREREQUISITES: French 1 and teacher recommendation.

French 2 is a continuation of French 1. Emphasis is placed on continuing beginning grammar, speaking, reading, writing and listening comprehension. The students will continue to practice in the present tense with a main focus on the past tense. The highlight of French 2 is an exploration of Paris, its many marvels, and rich history.

FRENCH 3 HONORS

CRS 100053 Grades 9-12 CR 1 S 1 block
PREREQUISITES: French 2 and teacher recommendation.

The emphasis of French 3 is placed on intermediate grammar, speaking, reading, writing and listening comprehension with a main focus on the two past tenses. Students will be exposed to a wide variety of authentic French short stories and excerpts. The highlight of French 3 will be constructing a personal scrapbook.

FRENCH 4 HONORS

CRS 100073 Grade 10-12 CR 1 S 1 block
PREREQUISITES: French 3 and teacher recommendation.

The emphasis of French 4 is placed on advanced grammar, speaking, reading, writing and listening comprehension. Students will be introduced to the future and conditional tenses and will be exposed to a wide variety of authentic French short stories and excerpts. Students will also be introduced to the past perfect, future perfect, past conditional and exposed to the simple past tenses. Students will also further develop their skills with informal writings. The highlight of French 4 is the travel unit and production of grammatical and thematic videos. Classes are mostly conducted in French.

FRENCH 5 HONORS

CRS 100093 Grade 10-12 CR 1 S 1 block
PREREQUISITES: French 4 and teacher recommendation.

French 5 is a continuation of French 4 with an emphasis placed on advanced grammar, speaking, reading, writing and listening comprehension. Advanced grammatical topics, including a study of the subjunctive mood, assist students in improving their spoken and written skills. The highlight of French 5 is the production of grammatical and thematic videos. Classes are mostly conducted in French.

FRENCH AP

CRS 100114 Grade 11-12 CR 2 Y 1 block
PREREQUISITE: French 5 and/or teacher recommendation.

The goals of AP French are to develop the ability to understand spoken French in various contexts, to develop a French vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary. In addition, the student will develop the ability to express oneself in French, both orally and in writing, coherently, resourcefully and with reasonable fluency and accuracy. It is important that students have a strong command of the language as well as the motivation and discipline required to keep up with a challenging and demanding curriculum, equivalent to a second or third year college course of French conversation and composition. Classes are conducted exclusively in French.

FUNDAMENTAL PHYSICAL EDUCATION

CRS 120011 Grade 9-12 CR 1/2 Q 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: Required for graduation.**

FUNDAMENTALS OF TECHNOLOGY

CRS 140051 Grades 9-10 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 devel-

oped into real life projects using problem-solving techniques. This course serves as a basic foundation for all other technology courses.

Engineering by Design™ see pg23

GEOMETRY A

CRS 020111 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Algebra 1B or Math C.

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. This course expands on the ideas learned in Algebra 1A and 1B. Geometry A covers Chapters 1-4 of CME Geometry. Topics include: an informal introduction to Geometry, congruence and proof, dissections and area, and similarity. **Note: Students that successfully complete Geometry A and B will have covered the concepts of Geometry.**

GEOMETRY A ENR

CRS 020112 Grades 9-10 CR 1 S 1 block
PREREQUISITE: Algebra 1B ENR or Algebra 1 Honors.
Geometry A ENR covers Chapters 1-7 of UCSMP Geometry. Topics include: Points and lines, the language and logic of geometry, angles and lines, congruence and transformations, proofs using congruence, polygons and symmetry, and applications of congruent triangles.

GEOMETRY B

CRS 020131 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Geometry A

A Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. This course expands on the ideas learned in Geometry A. Geometry B covers Chapters 5-8 of CME Geometry. Topics include circles, using similarity, coordinates and vectors, optimization. **Note: Students that successfully complete Geometry A and B will have covered the concepts of Geometry.**

GEOMETRY B ENR

CRS 020132 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Geometry A ENR
Geometry B ENR covers Chapters 8-14 of UCSMP Geometry. Topics include: lengths and areas, three dimensional figures, formulas for volume, indirect and coordinate proofs, similarity, similar triangles and trigonometry, and further work with circles.

GEOMETRY H

CRS 020133 Grades 9-10 CR 1 S 1 block
PREREQUISITE: Recommendation of 8th grade math teacher.

Geometry Honors covers Chapters 3-14 of UCSMP Geometry. Topics include: angles and lines, congruence and transformations, proofs using congruence, polygons and symmetry, and applications of congruent triangles. lengths and areas, three dimensional figures, formulas for volume, indirect and coordinate proofs, similarity, similar triangles and trigonometry, and further work with circles. **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 040111 Grades 9-12 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.**

GLOBAL STUDIES ENR

CRS 040112 Grades 9-12 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.**

GRAPHIC COMMUNICATIONS TECHNOLOGY

CRS 140131 Grades 9-11 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 140151 Grade 9-11 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 080511 Grade 11 CR 2 Y blocks/year
PREREQUISITE: Career and Technical Education application required.

ENR credit option is available for this course.

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 080531 Grade 12 CR 2 Y blocks/year
PREREQUISITE: Career and Technical Education application required.

ENR credit option is available for this course.

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 110071 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 110091 Grade: 9-12 CR 1/2 Q 1 block
PREREQUISITE: *Handbells 1 or instructor permission.*
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 090151 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 ENR

CRS 080551 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.

HEALTH SCIENCE TECHNOLOGY 2 ENR

CRS 080571 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 observation/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 040131 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 040132 Grades 11-12 CR 1 S 1 block
PREREQUISITE: *US History or competent in English.*
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 040151 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 140171 Grade: 9-11 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, is emphasized. Career opportunities are explored and students learn about environmental considerations related to home appliances.

HORTICULTURE 1

CRS 080591 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.

HORTICULTURE 2

CRS 080611 Grade 12 CR 2 Y block/year
PREREQUISITE: *Career and Technical Education application required, successful completion of Horticulture1.*

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.

HOUSING AND HOME DECOR

CRS 090171 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 030041 Grades 10-12 CR 1 S 1 block
PREREQUISITE: *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.

HUMAN GROWTH and DEVELOPMENT ENR

CRS 090272 Grades: 10-12 CR 1 S 1 block
PREREQUISITE: *Health*

Learn how life begins and follow the physical, emotional, social and intellectual development of a child through age 12. Students will be introduced to 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, and all areas of development through age 12. Students may also be given the opportunity to take home the baby simulator. There is the possibility that students interested in taking this course may have the opportunity to earn three college credits.

INDIVIDUAL/DUAL GAMES 1

CRS 120091 Grade 9-12 CR 1/2 Q 1 block
Students will explore a variety of lifetime sports and activities that are primarily played in an indoor setting. Most classes will take place indoors, however some lessons and sports we participate in require traveling outside. Students will focus on introduction, skill development, game strategy and game etiquette in activities including, but not limited to, badminton, pickle ball, gymnastics, track, map and compass, mountaineering, horse shoes and bocce ball. Students will gain a progressive understanding of each sport, enabling them to continue an active lifestyle in an activity of their choosing. Students will be quizzed through skill demonstration as well as written understanding of most activities. This course has a mandatory fieldtrip as part of the course requirement. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

INDIVIDUAL AND DUAL GAMES 2

CRS 120211 Grade 9-12 CR 1/2 Q 1 block
Students will explore a variety of lifetime sports and activities that are primarily played in an indoor setting. Most classes will take place indoors, however some lessons and sports we participate in require traveling outside. Students will focus on introduction, skill development, game strategy and game etiquette in activities including, but not limited to, golf, tennis, fishing and horseshoes. Students will gain a progressive understanding of each sport, enabling them to continue an active lifestyle in an activity of their choosing. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

INDOOR TEAM GAMES

CRS 120151 Grade 9-12 CR 1/2 Q 1 block
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, ultimate Frisbee, and miscellaneous games. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

INDUSTRIAL DESIGN - EXPLORING EbD

CRS 140061 Grades 9-10 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.

Engineering by Design™ see pg23

INFORMATION & COMMUNICATION TECHNOLOGY

CRS 070171 Grade 9-12 CR 1/2 Q 1 block
This course provides the opportunity to develop an understanding of basic information and communication software. Students will be exposed to Microsoft Office Word and PowerPoint applications to reinforce writing and presentation skills. Microsoft Photo Story, Google Apps, email applications, spreadsheets, and electronic databases will also be explored to reinforce and improve research, communication and writing skills. Upon successful completion of this course, students will be able to demonstrate a basic proficiency in the use and relevance of various software applications and choose appropriate methods and software to perform communication and research tasks using a computer. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences

INTELLECTUAL FREEDOM IN LITERATURE

CRS 010291 Grade 12 CR 1 S 1 Block
This course delves into the history of book banning and current censorship in the United States from the social and literary points of view. This course will define intellectual freedom, discuss the first and fourteenth amendments as challenged in court censorship cases, and debate censorship in a variety of literary works ranging from children's novels to young adult novels, with an emphasis on close reading of each text and what led to its banning. **Note - This course can replace English 4.**

INTERNATIONAL FOODS

CRS 090191 Grades 10-12 CR 1 S 1 block
PREREQUISITE: *Exploring Foods or Cooking for Singles.*

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. Class work will include understanding the effect of history, geography, culture and science on food selections.

INTRO TO CREATIVE NONFICTION

CRS 010131 Grade 11-12 CR 1/2 Q 1 block
PREREQUISITES: *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 BUSINESS

CRS 070191 Grade 9-10 CR 1/2 Q 1 block
This course introduces students to the world of business. Students will develop an understanding of the functions of a business, including accounting/bookkeeping, marketing, information and communication technology, human resources, and production. It will also focus on the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

INTRODUCTION TO COMPUTER REPAIR

CRS 140191 Grade 9-11 CR 1/2 Q 1 block
In Introduction to Computer Repair we will explore the exciting world of computer technology. Students will learn about the internal components in a computer and how they interact as well as how to load the necessary software to make the computer operate. We will also explore the worlds of PC repair, telecommunication and networking.

INTRODUCTION TO FOODS

CRS 090211 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. You will explore the food groups and serving sizes, as well as participating in food science experimentation.

INTRODUCTION TO MUSIC TECHNOLOGY

CRS 110111 Grade 9-12 CR 1/2 Q 1 block
This course explores the role technology plays in the production of music and audio recording. Topics covered will include: Basic Sound Theory; Basic Music Theory; Using Notation Software (Finale 2010); Historical Innovations in Music Technology; An Introduction to Microphones, Mixers, Cables, and Amps; and Using ProTools 8LE to Record and Mix Projects. Prior knowledge about reading and notating music is helpful, but not necessary. **Note: This class will fulfill the fine arts requirement for graduation.**

JOURNEY THROUGH TIME:

GEOLOGIC HISTORY & EVOLUTION

CRS 030161 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

JOURNEY THROUGH TIME:

GEOLOGIC HISTORY & EVOLUTION ENR

CRS 030162 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

JOURNEY THROUGH TIME:

GEOLOGIC HISTORY & EVOLUTION HONORS

CRS 030163 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of

the course with further reinforcement of laboratory skills and the scientific method.

LATIN 1 ENR

CRS 100132 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 vocabulary, 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 100152 Grades 9-12 CR 1 S 1 block
PREREQUISITES: *Latin 1 and teacher recommendation.*
Latin 2 begins with a thorough review of the vocabulary, forms, and 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 this course.

LATIN 3 HONORS

CRS 100173 Grades 10-12 CR 1 S 1 block
PREREQUISITES: *Latin 2 and teacher recommendation.*
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 100193 Grade 10-12 CR 1 S 1 block
PREREQUISITES: *Latin 3 and teacher recommendation.*
Latin 4 is a continuation of Latin 3 with a focus on the readings of Roman authors such as Livy, Sallust, Caesar, Cicero, and Virgil.

LAW AND ETHICS IN SPORTS

CRS 120281 Grade 9-12 CR 1/2 Q 1 block
This class will take students through the introduction of law in sports and why neglect, hazing and abuse have caused many to seek the law. We will cover entering into contracts from a parental sign off sheet to varied clauses in professional contracts. Students will write about case studies and participate in court room role play. Students must be active in group discussions and debates. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

LEGACY OF WILLIAM SHAKESPEARE

CRS 010271 Grade 12 CR 1 S 1 block
PREREQUISITE: *English 3 and teacher recommendation*
"All the world's a stage" in this literature and discussion course devoted to the life and works of the bard: William Shakespeare. Along with the sonnets, tragedies and comedies such as *Othello*, *Much Ado About Nothing*, *Twelfth Night*, *Taming of the Shrew*, *Macbeth*, *Hamlet* and *The Merchant of Venice* are studied both within the context of English Renaissance culture and for the timeless, universal appeal of the stories. The plays are reviewed via a range of media: text, film, audio recording, and live performance when possible. This will be a discussion and writing intensive course. **Note - This course can replace English 4.**

LIFE SKILLS IN THE KITCHEN

CRS 130490 Grades 9-12 CR 1 S 1 block
This classroom and laboratory course emphasizes the importance of healthy eating, nutrition, basic principles of food preparation, and planning and preparing meals. Students will learn measuring skills, kitchen safety and sanitation, and proper use of kitchen utensils and equipment.
Note: Placement is made by IEP team decision

L.I.T.E- LEARNING INDEPENDENCE THROUGH EXPERIENCE

CRS 130310 Grades 9-12 CR 1 Q 1 block
Students in the L.I.T.E. program will be taught all academics through experiential learning. Science, social studies, language arts and math are all encompassed in the program. Students will have academic time as well as daily living skills instruction. Students are placed in this self contained program, but they are incorporated into electives and other mainstream classes with support that assists them to be successful in that environment.

Note: Placement is made by IEP team decision.

MACHINE TOOL TECH 1 - EXPLORING

CRS 140211 Grades 9-11 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 140231 Grades 10-12 CR 1 S 1 block
PREREQUISITE: Machine Tool Tech 1 - Exploring.
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

CRS 080671 Grade 11 CR 2 Y block/year
PREREQUISITE: Career and Technical Education application required.

ENR credit option is available for this course.

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 (2010) Haas CNC lathe and 4-axis milling manufacturing centers. Safety instruction related to the proper use of equipment and methods will be emphasized. **Engineering by Design™** see pg23

MACHINE TOOL TECHNOLOGY 2

CRS 080691 Grade 12 CR 2 Y block/year
PREREQUISITE: Career and Technical Education application required, and successful completion of Machine Tool Technology 1.

ENR credit option is available for this course.

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 (2010) 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. **Engineering by Design™** see pg23 **Note: This is a college level course and students are eligible to receive college credit**

MARKETING ENR

CRS 070212 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. *Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.* **Note: This class will fulfill the economics requirement for graduation. This is a Running Start Course and students are eligible to receive college credit.**

MARKETING EDUCATION 1

CRS 080711 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 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. **Note: This class will fulfill the economics requirement for graduation. Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

MARKETING EDUCATION 2

CRS 080731 Grade 12 CR 2 Y block/year
Location: Somersworth
PREREQUISITE: Career and Technical Education application required, and 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. **Note: Students should consult with their guidance counselor as participation in this program may impact their ability to attain the required number of high school credits to graduate in four years.**

MATH A

CRS 020011 Grades 9 CR 1 S 1 block
Prerequisite: Recommendation of 8th grade math teacher.
Math A offers a Standards Based approach which connects experiences with mathematics and relates these experiences to everyday life. Math A topics include: arith-

metic to algebra, expressions and equations.

Note: Students that successfully complete Math A, B & C will have covered the concepts of Algebra 1A & 1B. Placement is restricted to ninth grade students recommended by their grade 8 math teacher based on a lack of readiness for Algebra 1A with a RIT score below 215 and students recommended by their grade 9 Algebra 1A math teacher that need basic skills.

MATH B

CRS 020031 Grades 9 CR 1 S 1 block
Prerequisite: Math A or recommendation of Algebra 1A teacher.

Math B offers 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 A. Math B topics include: graphs and lines, introduction to functions, and data analysis. **Note: Students that successfully complete Math A, B & C will have covered the concepts of Algebra 1A & 1B.**

MATH C

CRS 020051 Grades 9 CR 1 S 1 block
Prerequisite: Math B

Math C offers 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 B. Math C topics include: probability, exponents and radicals, polynomials and quadratics. **Note: Students that successfully complete Math A, B & C will have covered the concepts of Algebra 1A & 1B.**

MEDIA LITERACY

CRS 010251 Grade 12 CR 1 S 1 block
Students in this course will study modern media, such as advertisements, popular music, music videos, movies, television shows, websites, and other non-print texts. This course will help students be more aware and critical of the world around them. Students will learn to analyze and interpret forms of media, write about them, and respond to them through the creation of their own electronic and visual media. Students who wish to take this interdisciplinary course must be willing to work on projects outside of class, engage in public speaking, and have their projects displayed in public places. **Note: This course can replace English 4.**

MICRO & MACRO ECONOMICS AP

CRS 040074 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/BIOLOGY HNRS

CRS 030042 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.

MICROSOFT OFFICE

CRS 070231 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. MS Publisher will also be introduced. Letters, memos, reports, tables, brochures 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. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

MODERN WORLD HISTORY ENR

CRS 040192 Grades 9-12 CR 1 S 1 block
PREREQUISITE: 8th grade English and history and/or teacher recommendation or a high school enriched Social Studies or English class.

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 070271 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). Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

MOVING EARTH AND THE STARS ABOVE

CRS 030181 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

MOVING EARTH AND THE STARS ABOVE ENR

CRS 030182 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

MOVING EARTH AND THE STARS ABOVE HONORS

CRS 030183 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course designed to introduce students to concepts that lead to an understanding of the development of change over time. Examples of some concepts that will be studied are meteorology, geologic time, and evolution. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method.

MUSIC THEORY

CRS 110151 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 110152 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 010191 Grades 10-12 CR 1 S 1 block
PREREQUISITE: B in English and permission of the 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.

NORTH AMERICAN INDIAN STUDIES ENR

CRS 040212 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.

OUTDOOR TEAM GAMES

CRS 120321 Grades 9-12 CR 1/2 Q 1 block
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 - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

PAINTING AND DRAWING

CRS 060171 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 070291 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. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

PERSONAL FINANCE SKILLS

CRS 070281 Grades 9-12 CR 1/2 Q 1 block
This course designed for special needs students is an opportunity for students to integrate technology while learning how to be responsible managing their personal finances. Topics covered will include goal setting, wants vs. needs, saving and spending, and practicing how to use a checking account as well as debit cards. Situations involving identity theft and other deceptive practices will be discussed. The goal of this course is to build on the information and skills needed by young adults to make sound and knowledgeable personal finance decisions now and throughout their adult life. **Note: Placement is made by IEP decision.**

PERSONAL FITNESS & LEISURE ACTIVITIES

CRS 120111 Grades 9-12 CR 1/2 Q 1 block
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 daily workouts focused around the five health related fitness components: cardiovascular endurance, muscular strength and endurance, flexibility and body composition. Students 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 number of recreational 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. This class is primarily an outdoor course with limited access to the weight room. Access to the track, athletic fields, etc. will be provided within this course. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

PERSONAL MOTIVATION & STUDENT LEADERSHIP

CRS 110291 Grades 9-12 CR 1/2 Q 1 block
This is a personal improvement class which is taught utilizing the textbook *Seven Habits of Highly Effective Teens* written by Sean Covey. Topics will include: career goals surviving & thriving in school, off to college, parents, friends, building self esteem, addictions, dating, personal organizational skills, study skills and keys to personal success. All students are welcome. Please plan to experience a life changing class. You will learn some great lifelong skills.

PHILOSOPHY

CRS 040171 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.

PHOTOGRAPHY B & W AND COLOR DIGITAL

CRS 140251 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 030131 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.

PHYSICS AP

CRS 030134 Grades 12 CR 1 S 1 block
PREREQUISITE: Completion of Algebra II and Geometry with a minimum grade of B.
Advanced Placement Physics is a nationally standardized course that will follow the College Board AP Physics B syllabus. The AP Physics B exam is taken in May at the student's expense. This course will cover the governing principles of physics with an emphasis on conceptual understanding and problem-solving. Topics include: mechanics, fluids, waves and optics, electricity and magnetism, and modern physics. The course will move at a fast pace and require a fair amount of work to be done outside of class, including summer assignments. The course is intended to give students a solid foundation in physics as well as the opportunity to earn college credit

PHYSICS ENR

CRS 030132 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.

PHYSICS HONORS

CRS 030133 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.

PHYSICS: ENERGY IN MOTION

CRS 030221 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will study motion and energy. This will include the forces that affect motion and how energy is transferred from one form to another. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method. Essential Question: What drives motion?

PHYSICS: ENERGY IN MOTION ENR

CRS 030222 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will study motion and energy. This will include the forces that affect motion and how energy is transferred from one form to another. Laboratory experiences continue to be an integral part of the course with further reinforcement of laboratory skills and the scientific method. Essential Question: What drives motion?

PHYSICS: ENERGY IN MOTION HONORS

CRS 030223 Grade 9 CR 1/2 Q 1 block
This 1/2 credit required class is a general science course where students will study motion and energy. This will include the forces that affect motion and how energy is transferred from one form to another. Laboratory experiences continue to be an integral part of the course with

further reinforcement of laboratory skills and the scientific method. Essential Question: What drives motion?

PLUMBING TECHNOLOGY 1

CRS 080751 Grade 11 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 080771 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.

POST GRAD EXPERIENCE

CRS 130500

The Spaulding High School Post Graduate Experience program is intended to be a transitional step for students who have completed the requirements for a modified diploma and are in need of a more intensive transition to the world of work. Individualized student programs will provide real-world experience with a foundation in civic duties, vocational opportunities, daily living skills, and community involvement. The goal of the program is to maximize a student's autonomy upon completion of their high school experience.

Note: Placement is made by IEP team decision.

POWER LIFTING

CRS 120261 Grades 9-12 CR 1/2 Q 1 block
The focus of this course will be on Olympic and Sports style weight training. Students will pick up where Fundamental PE left off. Students will learn proper technique on Olympic style lifts. Students will develop a program and apply the concept of periodization to a year round program. When students leave this class they will have improvements in three lifts – bench press, squats and hang cleans. Students in this course will exercise strenuously to improve their fitness levels. After taking this class students will be prepared to compete in the USA Power Lifting Competition. **Note - The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

PRINCIPLES OF TECHNOLOGY

CRS 030141 Grades 11-12 CR 1 S 1 block
PREREQUISITE: Geometry A

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 040231 Grades 11-12 CR 1 S 1 block
PREREQUISITE: Civics and 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 040232 Grades 11-12 CR 1 S 1 block
PREREQUISITE: Civics and 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 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 010152 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 nonfiction essays as writing models, developing independent reading skills and improving analytical skills in writing responses to reading.

READING INTERVENTIONS

CRS 130280 Grades 9-12 CR 1 S 1 block
Students will work with a variety of reading interventions that will increase fluency, comprehension and decoding skills. We utilize the structured technology based program called Read Naturally. Levels 1-8 include true stories that the student reads independently at his/her own pace. In this course students will be responsible for reading novels, projects, and expanding knowledge in reading.
Note: Placement is made by IEP team decision.

RELATIONSHIPS

CRS 090231 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 140271 Grade 9-11 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. Careers to be explored include: 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 080791 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 080811 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.

RETAILING 1

CRS 070301 Grades 11-12 CR 1 S 1 block
Students become acquainted with retailing as a major economic force in the US and as a significant area for career opportunities. Basic retailing emphasizes the development of retail institutions, store layout and design, merchandising, pricing, and problems retailers experience in today's business environment. Students then apply these skills in the daily operation of the school business. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

RETAILING 2

CRS 070341 Grades 11-12 CR 2 Y 1 block
This course reinforces concepts learned in Retailing 1 and introduces distribution, successful selling techniques, promotion, and market research. Students are given opportunities to develop leadership skills and to demonstrate technical skills through field site experience in the Raider Shack school store. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

SENIOR EXITING CAREER PLANNING

CRS 150031 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 150011 Grade 12 CR 1/2 Q block
PREREQUISITE: 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 pre-

sentation. Students applying for early action or early decision should notify guidance to ensure first quarter enrollment. **Note: Offered first semester only.**

SKILLS ENGLISH

CRS 130070 Grades 9-12 CR 1 S 1 block
The curriculum includes a study of grammar, usage and mechanics, vocabulary, speech, composition, and literature. Students will read short stories and poetry. This course includes an intervention piece with specialized instruction based on IEP goals.

Note: Placement is made by IEP team decision.

SKILLS MATH

CRS 130150 Grades 9-12 CR 1 S 1 block
Students in this course will cover basic number sense, operations, basic geometry, time, money, and other skills needed for independent daily living and functioning in the world of work. Interventions are incorporated in the curriculum and students work on both competencies for math as well as individual IEP goals.

Note: Placement is made by IEP team decision.

SKILLS NUTRITION, HEALTH AND SAFETY

CRS 130140 Grades 9-12 CR 1 S 1 block
Nutrition, Health and Safety is a class designed to provide students with realistic classroom opportunities to acquire the knowledge and skills to serve as the building blocks to understanding health related issues. Students will be instructed to obtain, interpret, and understand basic health information and services in ways that enhance and actively promote a health conscious lifestyle.

Note: Placement is made by IEP team decision.

SKILLS READ/WRITE

CRS 130130 Grades 9-12 CR 1 S 1 block
Students in this class will focus on the skills of reading and the concepts of writing. In the reading part of the curriculum, focus is on fluency, comprehension and decoding. Read Naturally, a computer based program, is utilized as one of the interventions. The writing section will include the process of writing, focusing on writing strategies, paragraph structure and organization of ideas.

Note: Placement is made by IEP team decision.

SKILLS SCIENCE

CRS 130200 Grades 9-12 CR 1 S 1 block
Skills Science emphasizes understanding of basic concepts and using skills acquired. The students will observe, inquire, question, formulate and test hypotheses, analyze data, report, and evaluate findings. The students will have hands-on, active experiences throughout the instruction of the science curriculum. The concepts that are to be taught are directly correlated to the Spaulding High School Science Competencies.

Note: Placement is made by IEP team decision.

SKILLS SOCIAL STUDIES

CRS130190 Grades 9-12 CR 1 S 1 block
This semester-long course serves as a survey of the major subjects of the social studies. Students will investigate essential understandings in civics, economics, history and current issues with an emphasis on life skills and enduring lessons. Specifically, the focus will be on the topics of citizenship, the structure of government, economic skills, human rights and change over time. By the end of the course, students should have the knowledge and tools to be productive members of the community and critical thinkers about humanity.

Note: Placement is made by IEP team decision.

SMALL ENGINE TECHNOLOGY

CRS 140291 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, carburetion, 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 100212 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, with an introduction to the Spanish-speaking world. The goal of this course is to prepare students for Spanish 2 ENR.

SPANISH 2 ENR

CRS 100232 Grades 9-12 CR 1 S 1 block
PREREQUISITES: Spanish 1 and teacher recommendation.

This course offers students the opportunity to further develop their skills in listening, writing, speaking, and reading Spanish, focusing on the present and preterit tenses, as well as the concept of reflexive verbs. Study of geography and cultures of the Spanish-speaking world will continue.

SPANISH 3 HONORS

CRS 100253 Grades 9-12 CR 1 S 1 block
PREREQUISITES: Spanish 2 and teacher recommendation.

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 offers insight to the culture of the Spanish-speaking world.

SPANISH 4 HONORS

CRS 100273 Grade 10-12 CR 1 S 1 block
PREREQUISITES: Spanish 3 and teacher recommendation.

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, stories, 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 100293 Grade 10-12 CR 1 S 1 block
PREREQUISITES: Spanish 4 and teacher recommendation.

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 will assist students in improving their spoken and written skills. Classes are mostly conducted in Spanish.

SPANISH AP

CRS 100314 Grade 11-12 CR 2 Y 1 block
PREREQUISITE: French 5 and/or teacher recommendation.

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

SPORTS & AMERICAN SOCIETY ENR

CRS 040241 Grades 10-12 CR 1/2 Q 1 block
PREREQUISITE: Enriched Social Studies and English classes.

This course will focus on the evolving role of sports in American society. Students will examine the history of sports and its relationship with race, gender, economics and politics in the United States. Some topics include:

supplement and drug abuse, violence in sports, athletes as role models, broadcasting, rules, equipment, marketing i.e. cheerleading, apparel, etc. Students will develop skills in historical research, analysis, and interpretation. Students will be expected to participate in a variety of activities including: composing written essays, discussions involving required readings, and produce research projects.

SPORTS MEDICINE

CRS 120131 Grade 10-12 CR 1/2 Q 1 block
PREREQUISITE: Fundamental PE, Biology and permission from instructor.

Sports medicine will be taught from the perspective of the athlete. It is both a writing and a 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: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

SPORTS NUTRITION

CRS 120241 Grades 9-12 CR 1/2 Q 1 block
This P.E. class is classroom based, although we'll head outside occasionally. Students and athletes who have taken Fundamental Physical Education and would like to see the other side of staying healthy may take this entry level Sports Nutrition Class. Although physical activity is a very important aspect of keeping your body healthy and in shape, nutrition accounts for 80% of the fitness equation. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

STATISTICS AP

CRS 020244 Grade 11 CR 1 S 1 block
PREREQUISITE: Statistics H

Advanced Placement Statistics is a nationally standardized course. Spaulding High School strictly adheres to the College Board AP Statistics syllabus. The AP Statistics exam is taken in May (a fee is required for the exam). This course covers chapters 18 through 29 in Stats: Modeling the World. Topics to be covered include: hypothesis testing and confidence intervals, inferences about means and inferences for regression.

STATISTICS H

CRS 020243 Grade 10 CR 1 S 1 block
PREREQUISITE: Algebra 2H.

This course covers chapters 1 through 17 in Stats: Modeling the World. Topics to be covered include exploring and understanding data, relationships between variables, gathering data, randomness and probability.

STREET LAW & AMERICAN GOVT

CRS 040011 Grade 11-12 CR 1 S 1 block
PREREQUISITE: US History

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. Also included is a study of individual rights & Liberties, foundations of our Government and the three branches of government. The second half of the course is Street Law®, a survey course. Possible topics of discussion include Tort law, Criminal law, Juvenile Justice, Property law, Family law and Contract law. It 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.**

STREET LAW & AMERICAN GOVT ENR

CRS 040012 Grade 11-12 CR 1 S 1 block
PREREQUISITE: 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. 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. Also included is a study of individual rights & Liberties, foundations of our Government and the three branches of government. The second half of the course is Street Law®, a survey course. Possible topics of discussion include Tort law, Criminal law, Juvenile Justice, Property law, Family law and Contract law. It 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.

TELEVISION PRODUCTION 1

CRS 110171 Grade 9-12 CR 1/2 Q 1 block
In this introductory level course students will be introduced to the world of television and media production through a series of hands-on projects. Topics will include a brief history of broadcast television; the "grammar" and procedures utilized in television, film and media production; the basic parts of a video camera and their functions; the essential rules of camera framing, screen dynamics, and camera movement; and the concepts involved in basic non-linear editing and digital delivery. This class may require some after school and evening participation for certain projects. Some productions may appear on RTV – Metrocast Channel 25.

TELEVISION PRODUCTION 2

CRS 110191 Grade 9-12 CR 1 S 1 block
PREREQUISITE: Television Production 1.

This course expands upon information learned in Television Production 1 and will immerse students in a number of in-depth projects. Students will continue to develop skills in camera use, audio for video, screen dynamics, and non-linear editing while working on authentic productions for Spaulding High School and the Rochester School District. Students will take leadership roles and will be expected to work together in small crews to shepherd projects through the pre-production, production and post-production phases. Completed productions will be distributed to audiences online, through DVD's, on RTV – Metrocast Channel 25, or by any number of other means. Please be aware that this class WILL REQUIRE after school and evening participation on a rotating basis.

THEATRE 1

CRS 110211 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 110231 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

CRS 020171 Grades 11-12 CR 1 S 1 block
Prerequisite: Algebra 2.

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, complex numbers and vectors.

Note: Trigonometry does not prepare students for Calculus. Students intending to elect Calculus ENR are urged to elect Trigonometry ENR and Advanced Math ENR.

TRIGONOMETRY ENR

CRS 020172 Grade 11, 12 CR 1 S 1 block
RECOMMENDATION: Algebra 2ENR or in Algebra 2

This course stresses a functions approach and the use of graphing calculators. Trigonometric topics include: definitions, identities, equations, graphs, applications, inverse functions, functions of several angles (sums, differences, double and half angle formulas), law of sines, law of cosines, vectors, 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 elect Calculus ENR as a senior must elect this class in their junior year.**

TRIGONOMETRY H

CRS 020173 Grade 11-12 CR 1 S 1 block
RECOMMENDATION: Algebra 2 H or recommendation 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 040251 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 040254 Grade 10-12 CR 2 Y 2 blocks
PREREQUISITE: B or better in Freshman Social Studies courses. Recommendation of English (Honors or ENR) teacher, previous high school Social Studies teacher and approval of the Advanced Placement history teacher. Student may appeal if not all requirements are met.

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 040252 Grade 11 CR 1 S 1 block
PREREQUISITE: Enriched Social Studies or English class.

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 110251 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 110271 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 - INTRO TO HTML

CRS 070311 Grades 10-12 CR 1/2 Q 1 block
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.

WALK YOUR WAY TO FITNESS!

CRS 020171 Grades 9-12 CR ½ Q 1 Block
Prerequisite: Fundamental PE ½ Credit
Walk your way to fitness is primarily an outdoor walking course where students will learn the basics of how to develop a walking program to meet their individual needs in order to improve overall cardiovascular fitness. This is a beginner course designed for the average student, in essence to promote living a healthy lifestyle through exercise. **Note: The 1/2 credit earned in this course can be applied to the 1 credit required for graduation.**

WOMEN'S HEALTH

CRS 090251 Grades 11-12 CR 1/2 Q 1 block
PREREQUISITE: 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 (AutoCAD Drafting)

CRS 140311 Grades 10-12 CR 1/2 Q 1 block
ENR credit option is available for this course.
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.

Engineering by Design™

WOODWORKING TECHNOLOGY 1

CRS 140331 Grades 9-10 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 140351 Grades 10-11 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 140371 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 spe-

cific 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.

WORLD OF MUSIC, THE (formerly Music Appreciation)

CRS 110131 Grades 9-12 CR 1/2 Q 1 block
Students will explore a wide range of topics that will expand their musical "palette," and help to develop critical listening skills. Topics will be selected from the following and may vary from quarter to quarter: Basic Musical Notation, World Drumming, Instruments of the Band & Orchestra, Music from Medieval to Modern, The Great Composers, The Evolution of Jazz and Rock, American Musical Theatre, The Magic of Film Music, and Careers in Music. Performance, video presentations, class discussion, listening, and research projects are just a few of the means through which subject matter will be explored. Prior musical experience is NOT required for participation in this class. **Note: This class will fulfill the fine arts requirement for graduation.**

WORLD OF FINANCE AND BUSINESS

CRS 070361 Grades 10-12 CR 1 S 1 block
ENR credit option is available for this course.
Explore finance as it relates to business, banking and as an entrepreneurial enterprise. Finance will be examined from a global perspective as it relates to topics that include ethics, the law, and economic resources. This course will allow students to discover necessary skills, qualities, and tools needed to build a sturdy foundation for a profitable business. Students will assess opportunity costs and trade-offs involved in making choices about how to use economic resources. Students have the opportunity to become involved in the student organization, FBLA, which offers many opportunities for community service, leadership, travel and conferences.

YEARBOOK ENR

CRS 010212 Grades 10-12 CR 1 S 1 block
PREREQUISITE: A B or better in English.
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.