

Greenwich
Junior-Senior
High School



*Scholarship, Character, Community:
Cultivating The Future*

**Educational Planning Guide
Grades 9-12**

2010-2011



Greenwich Junior-Senior High School
10 Gray Avenue, Greenwich, NY 12834

Dear Parent/Guardian,

The 2010-2011 Educational Planning Guide (EPG) is a tool designed to assist students, parents, and staff members to maximize our students' educational opportunities at Greenwich Junior-Senior High School. The 9-12 EPG consists of course descriptions for those courses that will likely be offered during the 2010-2011 school year. It also provides important information about our academic policies and procedures and, perhaps most importantly, outlines the minimum requirements a student needs to earn an Advanced Regents Diploma in New York State. The Advanced Regents Diploma is the diploma type that the majority of the students in our school should be working toward as it indicates that a student has passed the classes and exams considered essential for college preparation.

When you meet with your child's counselor this spring to develop his/her 2010-2011 class schedule, your initial discussion should focus on making sure your child is on track to earn an Advanced Regents Diploma. If your son/daughter has met the requirements for an Advanced Regents Diploma and is looking to challenge themselves academically, you should discuss the opportunities our school provides for students to take college courses through SUNY Albany and Adirondack Community College, and Advanced Placement (AP) courses. It is also recommended that you discuss the outstanding opportunities available in our school to study in the areas of business, agriculture, art, music, and/or technology.

The economic climate that we live in today makes it more important than ever that our young people maximize their educational experience while in high school. Your child needs to leave our school with the knowledge, skills, and habits necessary to be able to successfully compete with the millions of students graduating throughout our country and the world. You can help us prepare your child by taking an active role in the course selection process. Our counselors and teachers look forward to partnering with you in this important and rewarding endeavor.

As always, we welcome you to contact us if you have any questions or concerns about our educational program and your child's progress toward a diploma and beyond.

Respectfully,

A handwritten signature in black ink, appearing to be "G. Niesz".

George C. Niesz
JH/SH Principal

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How to Use this Guide

The Educational Planning Guide is intended to aid students, parents and school personnel in the planning of academic programs at Greenwich Jr./Sr. High School. Included in the center of the Guide is a planning sheet that can be used to help determine what courses to take.

As students and their parents read through this Planning Guide, they should try to plan for not only the next school year, but for the years beyond. Every GCS student enters 9th grade “on track” for an Advanced Regents diploma. This diploma type is considered the minimum required for a degree and preparation for college. The chart on the next page shows the required courses that a student needs to take throughout their high school career, as well as the nine required Regents exams that they must pass to earn an Advanced Regents diploma. Some students who struggle meeting some aspect of the Advanced Regents diploma will earn a Regents Diploma. (See School Counselor for Regents Diploma description.)

Once a student has met the requirements for an Advanced Regents Diploma, they should look to challenge themselves academically. Greenwich offers a variety of opportunities for students to take college courses through SUNY Albany and Adirondack Community College, as well as Advanced Placement (AP) courses. Students may also take advantage of the outstanding opportunities available in our school to study in the areas of business, agriculture, art, music, and/or technology.

NUMBER OF CREDITS AND SEQUENCES

All students are required to carry a minimum of 6 1/2 units of credit each year, including Physical Education and a minimum of 22 credits are required for graduation. The High School Principal may change this minimum load in unusual or extenuating circumstances. A **Unit** is a value given to any high school subject pursued 5 times a week for the entire school year. A ½ **Unit** is earned for pursuing a half-year course or a course which meets on alternating days.

Students must either take three units of a Foreign Language or one unit plus a 5-unit sequence in Art, Music, Tech, Agriculture or Business.

Prerequisites represent requirements which must be met before a student may be enrolled in a given course. This may consist of meeting certain standards in previously completed courses, attaining minimum standard scores in a previous final or Regents, and/or the recommendation of a teacher and school counselor. **All prerequisites can be overridden by special exception of the Principal.**

Required Courses for an Advanced Regents Diploma	
English	4 UNITS
Social Studies	4 UNITS
Math	3 UNITS
Science	3 UNITS
Health	1/2 UNIT
Art and/or Music	1 UNIT
Foreign Language (LOTE)	3 UNITS (or 1 unit in LOTE and 5 units in Art/Music/Tech/ Agriculture or Business)
Physical Education	2 UNITS
Electives	2 UNITS
Total Required Credits (minimum)	22 UNITS

REQUIRED REGENTS EXAMS FOR AN ADVANCED REGENTS DIPLOMA
9 Required Regents Exams
1. Comprehensive English
2. Global History & Geography 3. US History and Government
4. Integrated Algebra 5. Geometry 6. Algebra 2/Trigonometry
7. Living Environment 8. Earth Science OR Chemistry OR Physics
9. Comprehensive French OR Comprehensive Spanish

Policies and Procedures

Passing Standard

The passing standard in Greenwich Junior-Senior High School is 65%. Students that earn a grade of 65 or better on a New York State Regents exam will earn a final average of 65% for the course *IF* their calculated final average for the four quarters and final exam is a 50% or better.

Special education students in an IEP Diploma Program will progress each year based on successfully meeting their IEP goals. If an IEP student fails to meet his/her goals, he/she may be retained.

Regents Exam as Final Exam

The grade that a student earns on a New York State Regents exam will be used as the final exam grade in all high school courses that have a Regents exam. The only exception to this rule will be English 11.

Incomplete Grades

Teachers should only place Incomplete on a student's report card in extraordinary circumstances. Extraordinary circumstances will usually be defined as times when a student has missed a significant amount of instructional time due to an illness or other excused absence from school. All incomplete grades **MUST** be changed to numeric grades within two weeks of the posting of the incomplete grade.

Failed Courses

All students must pass the required core subject areas (Math, Science, Social Studies and English) at each grade-level and earn the assigned credit to advance to the next grade level. Students are encouraged to attend Summer School to make up courses failed during the regular school year. Students who fail subjects and choose not to go to summer school will not be allowed to "double up" (Example: Take both English 10 and English 11) in the fall. Students who repeat failed (full year) courses (failed either in the previous regular school session or subsequently in the summer school session) in the fall are required to retake the course for the entire year. Exceptions may be made by the Principal.

Tutored Students

Students that are tutored (are not receiving instruction during the regular school day) are entitled to instruction that is commensurate to what is happening in the regular classroom. It should not be assumed that a student being tutored will always receive exactly the same assignments as the students regularly attending class because of the obvious difference in the way the student is receiving instruction. Teachers will assign work for students being tutored that will allow the student to meet the New York State learning standards. When a student requires tutoring for an extended period of time (longer than $\frac{1}{2}$ of a school year), he or she will likely not be able to maintain a full schedule of classes. The school counselor will develop a new class schedule for students being tutored that allows the student to maintain enrollment in the minimum number of core courses (Math, English, Social Studies, and Science) plus any courses that the counselor and tutor believe can be successfully completed through tutoring.

Add/Drop/Course Change Policy

The procedure for a student initiated Add/Drop/Course Change is as follows:

- **During the first two weeks of school, only emergency schedule changes will be made** (Example: missing a required class, duplicate classes, 9th grader in 12th grade English, etc.)
- Students meet with their school counselors to discuss proposed changes. Students requesting changes are required to make appointments to meet with their school counselors. During this initial meeting it will be determined if the change is appropriate. If the requested change is possible and appropriate the student will be given an Add/Drop/Change form to complete.
- All of the required signatures must be on the form for it to be considered complete. This includes both the adding and the dropping teacher. If a teacher, parent, counselor, or the Principal feels that the change is not appropriate, the change may not be granted.
- Once the form is complete, it should be returned to the counselor for his comments and final approval.
- Appeals will be heard by the Principal.

All changes to schedules must be processed by the end of the fifth week of school. **Requests for changes after the fifth week of school will be granted by the Principal only in extraordinary circumstances.**

Earning Special Units of Credit

Challenging a Regents course: With the approval of the Principal, a student may earn a maximum of 6 ½ units of credit for either a Regents or local diploma without completing a full course of study for such units of credit if:

1. The student meets with the counselor and/or Principal to discuss the possibility of **challenging the course prior** to the beginning of the class in question.
2. Based on the student's past academic performance the Principal determines that the student will benefit academically by exercising this alternative.
3. The student has demonstrated above average proficiency in all subject areas including the subject he/she is planning to challenge (85% average or above).
4. (When appropriate) The teacher of the course indicates that the student qualifies based on the above mentioned items and that the student has a better than average chance at receiving an 85% or better on the Regents examination.
5. Permission to challenge is granted by the principal.
6. Student constructs and submits a plan to prepare to pass the examination.
7. Student registers for the Regents examination.
8. The student achieves a score of at least 85%, or its equivalent as determined by the Commissioner, on a State-developed or State approved examination; (The following are State-developed examinations – Regents examinations in all subjects; second language proficiency tests; Occ. Ed. Proficiency tests.)
9. The student passes an oral examination or successfully completes a **special project** to demonstrate proficiency, as determined by the principal, in the subject matter area.

Art and/or Music Requirement: A student may obtain the unit of credit in art and/or music required in the following manner:

- By participating, only in exceptional situations, in an advanced out-of-school art or music activity. Credit for such participation shall be upon recommendation by the student's art or music teacher, or by the school Principal, and shall be consistent with the goals and objectives of the school's art and/or music program.
- A student may receive a unit of credit for participation in such activities if such participation is equivalent to a unit of study, or a student may receive ¼ unit of credit for such activity equivalent to ¼ unit of study.

AP Course Prerequisites and Requirements

Advanced Placement courses are offered through the College Board. Through AP courses, students develop and apply the skills, abilities and content knowledge they will need later in college. AP courses culminate with a college-level assessment which enables students to demonstrate their mastery of college-level course work. Strong performance on AP exams is rewarded by colleges and universities worldwide.

Greenwich Central School offers the following AP courses:

AP ENVIRONMENTAL SCIENCE
AP ENGLISH LITERATURE AND COMPOSITION
AP ENGLISH LANGUAGE AND COMPOSITION
AP CALCULUS
AP STATISTICS
AP BIOLOGY
AP UNITED STATES HISTORY
AP EUROPEAN HISTORY
AP U.S. GOVERNMENT AND POLITICS

Students that want to take an AP course while at Greenwich Junior Senior High school will need to meet the prerequisites for the course before being scheduled in the class. (See course descriptions for more information.)

AP Summer Assignments

Many AP courses require that students complete some course work during the summer months (this is necessary because of the relatively late start of New York State school calendars and the administration date of May for AP exams). Students that fail to adequately complete the summer work they have been assigned will immediately be placed on probation and a parent/teacher meeting will take place to review whether the student should remain in the AP class.

Students enrolled in an AP course must maintain a minimum course average of 75% to ensure enrollment. Students that earn quarter averages of below 75% will be placed on probation and a parent/teacher meeting will take place to review whether the student should remain in the AP class. In order to receive credit for taking an AP class a student must take the attached AP exam in May.

College-Level Courses

Greenwich Central School has reached agreements with Adirondack Community College and SUNY Albany to offer our students college-level courses on our campus.

Please be aware that students choosing to take one of these courses will be required to pay a fee in order to sign up for the course. See course descriptions for more information.

ACC COURSES

Students can earn up to six Adirondack Community College credits while still in high school. These credits form the basis of a permanent academic record that can be transferred to many colleges and universities throughout the country. These courses provide students with the academic challenges of college-level curriculum during their final years of High School. This “bridging” experience helps students begin to develop the skills necessary for academic success in higher education and allows students to shorten the college sequence by entering college with previously earned credit.

Greenwich Central School offers the following ACC courses through the Business Department:

**ACC BUS 100 WORD PROCESSING IN WINDOWS
ACC BUS 101 INTRODUCTION TO BUSINESS**

UNIVERSITY IN HIGH SCHOOL COURSES

Students can earn up to four SUNY Albany credits while still in high school. These credits form the basis of a permanent academic record that can be transferred to many colleges and universities throughout the country. The French and Spanish UHS courses provide students with the academic challenges of a college-level curriculum during their final year in High School. This “bridging” experience helps students begin to develop the skills necessary for academic success in higher education. It also allows students the opportunity to shorten the four-year college sequence by entering college with previously earned credit.

**UHS FRENCH
UHS SPANISH
UHS SCIENCE**

Independent Study

1. PURPOSE

- a. To provide students who are eligible with an opportunity to pursue a topic of special interest.
- b. To provide students who are eligible with an opportunity to develop individual responsibility and work habits.
- c. To provide students who are eligible with more flexibility in fulfilling their high school goals.

2. PROCEDURE FOR REQUESTING INDEPENDENT STUDY

The student must have the written consent of his/her parents and of a sponsor teacher before s/he may apply for independent study. After consulting with the sponsor teacher, the student must complete the independent study application. The application is available in the Counseling Office. Before the independent study can begin, it must be approved, in writing by the sponsor teacher, counselor and parent. The final decision will be made by the Principal.

3. ADDITIONAL INFORMATION AND REQUIREMENTS

- a. Approval of all applications will be based on the individual merit of the proposal.
- b. Independent study courses are offered at the teacher's discretion because they require work beyond regular teacher assignment.
- c. Independent studies will not be granted to students who can fit the desired class into their schedule.
- d. There is a minimum academic standard for independent study. It must be equal in difficulty and work load to a course offered in the subject area and at the grade level of which the applicant is a member.
- e. The student may use any material, equipment, facility, etc. that has been approved as noted on the application.
- f. The independent study must be completed five school days before the end of the semester for a half-year course and five school days before the end of the year for a full-year course.
- g. The sponsor teacher and the student will arrange the schedule and meeting place. A record (log-including the time in minutes) will be kept of the meetings each day and filed with the Principal quarterly.
- h. The sponsor teacher will evaluate and grade the independent study at 5 week intervals and a pass/fail grade will be placed on the report card (unless special permission of the Principal)
- i. Credit will be granted only after the Principal has been presented the final paper or project and a complete log of the meetings has been handed in and reviewed.

Course Offerings

Please note that some courses in this guide are not offered each year. Please check with your counselor for details.

ACADEMIC INTERVENTION SERVICES (AIS)

AIS is required by NYS Education regulations and provides additional instruction to students in English/Language Arts, Mathematics, Social Studies and Science based on performance in required New York State assessments, classroom performance, and/or teacher recommendation. Services are provided in two forms: progress monitoring and scheduled AIS classes. AIS classes supplement the instruction provided in the general curriculum and assist students in meeting the State Learning Standards. Progress monitoring involves the AIS teacher monitoring a student's performance every five weeks to check on his/her progress in the respective academic class through contact with the content teacher. If this form of service is not effective then the student will be placed in an AIS class if his/her schedule allows.

Student support services may include counseling, attendance, and study skills that are needed to support improved academic performance. AIS is intended to assist students who are at risk of not achieving the State Learning Standards in English Language Arts, Mathematics, Social Studies and/or Science. This program is also for students who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on State assessments. Students will exit the program based on successful completion of New York State assessments.

AGRICULTURE

(An alternative to the 3-unit LOTE requirement is completing a 5-unit sequence in Agriculture.)

The mission of the GCS Agriculture Education program is to prepare and support individuals for agriculture careers, develop leadership and build awareness for the nation's food, fiber and natural resource systems. All Agriculture sequences consist of 4 or 5 units.

SPECIAL NOTE *Regents Biology may be used as one of the courses in the 4 or 5 unit agricultural sequence. At the same time it can be used to meet the second year of the three-year science requirement. It will count only once (1 unit) to meet the unit requirements for graduation.*

AG-SCIENCE

Credit: 1 Unit

One out of every five jobs in the United States are in the agricultural industry. What is agriculture? Find out in this hands-on science course. Topics of study include an introduction to plant science, animal science, food science, leadership development, and FFA. This course is a pre-requisite for Animal Science and Plant Science.

AGRICULTURE ENGINEERING

Credit: 1-3 Units

Recommended for Sophomores or higher.

Agriculture Engineering courses teach basic skills that will be useful to any student planning a career in industry or engineering, or just looking to gain experience in basic home repairs. The curriculum differs every other year, so students may enroll for two consecutive years. Selected students may participate in a 3rd year of study.

Agriculture Engineering I—Construction techniques, electricity and electrical wiring, small engine overhaul and maintenance, assembly of agriculture equipment and principles of engines.

Agriculture Engineering II—This course focuses primarily on welding and metallurgy processes. Topics include oxy-acetylene cutting, welding, and brazing. Students also weld using Arc, MIG, and TIG welding equipment. Other topics taught include plumbing, pipe-fitting, and copper soldering.

Agriculture Engineering III—Selected students who have successfully completed *Ag. Engineering I and II* can enroll in this course. They must have prior approval from the agriculture teacher. Students are responsible for securing projects to work on during the year.

COOPERATIVE WORK EXPERIENCE LEARNING

Credit: 1 Unit

Junior or Senior agriculture students may earn 1 unit of school credit by meeting the requirements of the FFA Empire Degree. Requirements include:

- 450 hours of documented Ag work experience that has earned the student a net worth of at least \$1,000.
- Leadership in FFA, school and community activities.
- Participation in an interview to verify records.

ANIMAL SCIENCE

Credit: 1 Unit

Prerequisite: Ag-Science

Students successfully completing this course may earn college credit through the Ag Tech Prep initiative. Students will study the current issues in animal rights versus welfare, animal breeds, health and disease, genetics and animal breeding, nutrition and marketing. Leadership development through the FFA will be incorporated throughout the course.

PLANT SCIENCE

Credit: 1 Unit

Prerequisite: Ag-Science

Design and build a hydroponics system, make a floral arrangement, or clone a fern while studying the scientific principles of plant growth. Units of study include: Plant Structure and Function, Plant Reproduction, Floriculture, Arboriculture, and Nursery Management.

VETERINARY SCIENCE

Credit: 1 Unit

Prerequisite: Ag-Science and Animal Science

Designed for upper level agricultural students, this course builds on what students learn in *Animal Science*. It will prepare them for post-secondary education and/or a career in the field of veterinary medicine. Content areas include safety and sanitation, veterinary terminology, anatomy and physiology, clinical exams, hospital procedures, parasitology, office management, posology, laboratory techniques and small animal nutrition. Leadership development through the FFA will be incorporated throughout the year.

AG/BUSINESS SALES & MANAGEMENT CAPSTONE

Credit: 1 Unit

Prerequisite: OPEN TO SENIORS ONLY who have completed or will complete their sequence in Business and Marketing Education or their sequence in Agriculture

This course is for the student who plans to pursue a career/college major in the field of agriculture or business management. Student(s) will be introduced to the fundamental management theories and functions including: planning, organizing, leading, controlling, responsibilities, production, goals, decision making, and managing risk in both the agriculture and the business fields of study. The students will then apply these essential elements of management through practical experience including career specific business plans, business operations and sales theories. Units of study will also include computers and communication as they would need to be utilized in business and agriculture fields. Lastly, specific careers in the business and agriculture areas will be studied. This class will be counted toward a 5-unit sequence in Business & Marketing Education or Agriculture Education.

AP ENVIRONMENTAL SCIENCE

Credit: 1 Unit

Prerequisites:

1. Successful completion of Living Environment and Chemistry
2. At least an 85% on the Living Environment and Chemistry Regents exams
3. Or by special permission of the Principal

Environmental Science involves the use and understanding of many disciplines, including biology, chemistry, earth science, agricultural science, politics, government, economics and medicine. The natural environmental is a tremendously complex and poorly understood system. As we progress through the year, the student will experience how each discipline listed above, as well as others, is used by environmental scientists to understand and predict the effects that changes, including those caused by the human population, have on the natural world. Computer analysis and simulations as well as laboratory analysis are among the tools Environmental Science students will use in this attempt. In addition, students will study how environmental issues have political, social and economic ramifications.

ART / MUSIC / FINE ARTS

(1 Unit of Art/Music/Fine Arts is required for graduation)

STUDIO IN ART I & II

Credit: 1 Unit ($\frac{1}{2}$ per semester)

This course meets the state and local requirements for art. Students taking this course will explore color, line texture, balance, composition, two and three dimensional design, drawing, painting, mixed media and art history. Students are required to keep a sketchbook in class.

STUDIO IN DRAWING AND PAINTING I & II

Credit: 1 Unit ($\frac{1}{2}$ per semester)

Prerequisite: Studio Art I and Studio Art II

The basic art elements from *Studio in Art* are extended to various forms of drawing and painting. Various mediums and methods of artistic expression in drawing and painting are explored. In addition to class projects, students are also required to complete weekly sketchbook assignments. Lessons in art history and its applications to projects are integrated throughout the course.

ADVANCED STUDIO IN ART I / II

Credit: 1 Unit per year

Prerequisites:

1. ***Studio In Art I & II* and *Studio In Drawing and Painting*.**
2. **A grade of 90 or above in *Studio In Drawing and Painting* is required or successful completion of assigned summer portfolio project demonstrating advanced skills and evaluated as described in the assignment criteria.**
3. **A minimum grade of 90 or above is also required for students in *Adv. Studio I* to continue to *Adv. Studio II*.**

Students are expected to understand and apply drawing and painting skills including shading, contour, gesture, value and composition. Interest in art, self-motivation and creative solutions to assignments are essential in meeting course goals. Students are expected to complete weekly sketchbook assignments, participate in class critiques, complete written assignments and maintain standards demonstrating and applying advanced skills.

STUDIO IN CERAMICS I & II

Credit: 1 Unit (¹/₂ per semester)

Prerequisites:

1. ***Studio Art I***
2. ***Studio Art II***
3. **Completion of *Studio in Drawing and Painting* is strongly recommended**

In addition to class assignments, both courses require students to keep a sketchbook with weekly assignments. Lessons in art history and its application to projects are integrated throughout each course.

Studio In Ceramics I—This course focuses on hand building with clay. Basic techniques in pinch pots, slab, coil, relief and construction are taught. Students will learn how to use glazes, patinas and added material to complete their fired pieces.

Studio In Ceramics II—This course focuses on advanced techniques in hand building and glazing. Advanced projects in relief and “in the round” are taught.

BAND, Senior High

Credit: 1/2 Unit or 1 Unit

Students have an option of attending Band every day of the week to earn a full unit of credit or on alternating days to receive a 1/2 unit of credit.

A wide variety of classical music, traditional concert band music, popular and seasonal music is performed. Eligibility requirements for Senior Band include 4 years playing experience on the instrument, past participation in Junior/Senior Band or with the director's permission. Enrolled students also take one class lesson per week on a 4 week rotating period basis.

Attendance at lessons and evening performances is mandatory. There are several opportunities throughout the year to perform in advanced ensembles, and to perform at in-state and out-of-state festivals. Participation in *Senior Band* for two years will satisfy the 1 Unit Art/Music graduation requirement.

Students who did not receive instruction in the school band program the previous year must pass an entrance audition. Enrolled students are required to participate in activities such as occasional evening rehearsals, the winter, pops, and spring concerts, Memorial Day parade and graduation. Individual practice at home is required.

CHORUS, Senior High

Credit: 1/2 Unit or 1 Unit

Students have an option of attending Chorus every day of the week to earn a full unit of credit or on alternating days to receive a 1/2 unit of credit. Chorus students will experience many styles of music from Renaissance through contemporary, including folk music, popular music, jazz and music of other cultures while learning and practicing techniques of singing, musicianship and artistic presentation. One full credit of chorus will satisfy the New York State art/music requirement for graduation.

MUSIC THEORY I

Credit: 1 Unit

Available for Juniors and Seniors only

This class introduces the basic elements of music, composition, harmonization and analysis techniques. It enables students to acquire a greater understanding and appreciation for music and its construction. Students will compose various compositions using melodies and harmonies written in the classical style. Original compositions will be written by the students.

MUSICAL THEATER ARTS, Intro. & Adv.

Credit: 1/2 Unit each semester

Students will practice using the body, voice, and mind efficiently and effectively. The curriculum includes techniques of breathing, diction, projection, and presentation as we perform readings, scenes, improvisations, and monologues. Singing and dancing are NOT required. Students will gain a higher comfort level speaking before audiences and interview committees for colleges and professional life.

BUSINESS & MARKETING EDUCATION

*(An alternative to the 3-unit LOTE requirement
is completing a 5-unit sequence in Business Education.)*

KEYBOARDING/COMPUTER ESSENTIALS

Credit: 1 Unit

This course is devoted to mastery of a computer keyboard, basic computer and word processing functions along with additional business communications such as proper letter format, résumés and reports. This is the foundation course of the Business sequence. Typing speed of 40 words per minute (wpm) for 1 minute with 5% error at the end of the 1st semester and 50 WPM with 5% error at the end of the second semester is required.

ACCOUNTING

Credit: 1 Unit

An introduction of Accounting concepts, theories, principals and practices as they relate to a service business. The Accounting cycle, journalizing, posting, closing and financial statement preparation are studied. Emphasis will be placed on business owned by one person and by partners. Automated Accounting will also be applied during this course. This course satisfies the third year requirement for Math.

MARKETING CLUSTERS - eCOMMERCE AND BEYOND

Credit: 1 Unit

Prerequisites: Keyboarding/Computer Essentials, or the ability to type 50 words per minute

Students will learn how business/marketing concepts apply to the electronic world of eCommerce. Students will explore all aspects of starting an eBusiness from the ground up and will build and maintain a website. New forms of marketing are also explored during the year including: Sports Industry Marketing, Music and Entertainment Marketing and Media Marketing. Students are required to do considerable group work along with having intense individual responsibility.

BUSINESS LAW

Credit: 1 Unit

This is the first in a series of law courses. Students will gain a respect for and understanding of the segment of law that affects them in personal and business applications. It deals specifically with contracts and the principles of law applicable to every day life. The curriculum deals with a broad basis of law and culminates with students participating in a mock trial.

Credit for this course may be used to meet sequence requirements of Business/Marketing Education and/or the 5th unit of Social Studies and is the pre-requisite for students wishing to continue on with Employment Law and Sports Law, which are half-year courses offered bi-annually. At the end of this course, students may opt to take the CLEP Business Law Exam. Passing this exam can yield a student 3 college credits. See instructor for more details.

BUSINESS OWNERSHIP

Credit: 1 Unit

Students will analyze the multi-faceted role of a business owner in today's international business world. There is an emphasis on hands-on simulation activities along with student presentations. Student will operate the school store, prepare a business plan, and participate in a classroom version of *The Apprentice*. Credit for this course may be used to meet the sequence requirements of Business/Marketing Education.

AG/BUSINESS SALES & MANAGEMENT CAPSTONE

Credit: 1 Unit

Prerequisite: OPEN TO SENIORS ONLY who have completed or will complete their sequence in Business and Marketing Education or their sequence in Agriculture.

This course is for the student who plans to pursue a career/college major in the field of agriculture or business management. Student(s) will be introduced to the fundamental management theories and functions including: Planning, organizing, leading, controlling, responsibilities, production, goals, decision making, and managing risk in both the agriculture and the business fields of study. The students will then apply these essential elements of management through practical experience including career specific business plans, business operations and sales theories. Units of study will also include computers and communication as they would need to be utilized in business and agriculture fields. Lastly, specific careers in the business and agriculture areas will be studied.

ESSENTIAL SKILLS FOR COLLEGE & LIFE

Credit: $\frac{1}{2}$ unit

Open to any Junior or Senior

This course is for the upper classman who is interested in fine tuning his/her computer communication skills (Keyboarding Skill/Word Applications) while working towards documents that will help them in the college exploration, planning, and application processes. Each student will develop a portfolio to use for college and internship interviews. This course will also address key life skills that are essential for effective transitioning to college life.

CAREER EXPLORATION INTERNSHIP PROGRAM

Credit: See below

Open to Seniors Only

This course is a career exploration internship. This class is designed for Seniors to explore a career at an actual worksite. Students will spend up to 20 weeks per semester observing and involving themselves with their chosen career at a school-approved job site. Credit will be based on the number of hours at the job site, completion of weekly time logs, weekly meetings with the Internship Coordinator, and quarterly projects. Students are placed only by the Internship Coordinator. Job sites cannot be family or family businesses. NOTE: Students must apply and be accepted into this program. Applications are available online, from the Internship Coordinator, or from the Counseling Office.

Internship credit will be awarded based on the following:

Example 1: A student who is excused for periods 1-4 will receive 2 credits if enrolled in the program for the full year (1 credit if only for $\frac{1}{2}$ a year).

Example 2: A student who is excused for periods 9-11 will receive 1 credit if enrolled in the program for the full year ($\frac{1}{2}$ credit if only for $\frac{1}{2}$ a year).

Example 3: A student who is excused for periods 7-11 will receive 2 credits if enrolled in the program for the full year (1 credit if only for $\frac{1}{2}$ a year).

BUSINESS/PERSONAL FINANCIAL MATH

Credit: $\frac{1}{2}$ unit

Open to any Junior or Senior

This course is for the student who is looking to understand the complex financial world they will encounter during their lives. Topics covered will include: managing personal finances, banking, investing, checking/saving accounts, debt, identity fraud, insurance, record-keeping, income taxes, credit, budgeting, and taxes, as well as business mathematics topics from personnel, production, purchasing, financial management and planning. Students will routinely use the internet, Excel spreadsheets, and several computer applications with real world connections.

EMPLOYMENT LAW

Credit: $\frac{1}{2}$ Unit

Prerequisite: Business Law or by special permission of the Principal

Everyone is affected by employment law whether they are a manager, an owner/employer, or an employee. This course will review the various regulations that affect the everyday lives of employers and their employees, from hourly pay, health benefits, health and safety, employment contracts, discrimination, and all other aspects of employment. A variety of cases will be highlighted and terminology explained.

SPORTS LAW

Credit: $\frac{1}{2}$ Unit

Prerequisite: Business Law or by special permission of the Principal

Sports Law is a relatively new field beginning in the 1970's. Many sport manager leadership positions require knowledge of legal issues. Though it is not necessary to be a lawyer to hold these positions, it certainly helps to understand the legal issues involved in sports management. Various areas of law are applied to the sports industry with the most common being antitrust, contracts and torts. A variety of cases are highlighted and terminology explained.

ACC BUSINESS COURSES FOR COLLEGE CREDIT

Students can earn up to six Adirondack Community College credits while still in high school. These credits form the basis of a permanent academic record that can be transferred to many colleges and universities throughout the country. These courses provide students with the academic challenges of college-level curriculum during their final years of High School. This “bridging” experience helps students begin to develop the skills necessary for academic success in higher education and allows students to shorten the college sequence by entering college with previously earned credit.

ACC BUS 100 WORD PROCESSING IN WINDOWS

Credit: 3 College Credits (Local 1/2 credit)

Prerequisite: Students wishing to obtain college credit must have an overall GPA greater than 85% or special permission from the Principal.

This beginning-level college course provides an overview of the Windows environment, use of the mouse, and basic experience in creating text, modifying text, and applying attributes to text in different types of documents using a Windows word processing program.

ACC BUS 101 INTRODUCTION TO BUSINESS

Credit: 3 College Credits (Local 1/2 credit)

Prerequisite: Students wishing to obtain college credit must have a GPA in Business or an overall GPA greater than 85%. Those taking the course for local credit only must have completed at least three other business courses.

This course provides an understanding of the environment in which business operates. Topics include economics, finance, the security markets, ownership structure, banking, management and marketing. The integration of these topics into everyday business operations will be stressed. A stock project will be completed.

Please be aware that students choosing to take one of these courses through ACC may be required to pay a fee in order to sign up for the course.

ENGLISH/LANGUAGE ARTS

(4 Units of English and 1 Regents exam are required)

ENGLISH 9

Credit: 1 Unit

Students will study various literary genres including short story, drama, novel, poetry and non-fiction. Students learn to take a more critical look at how authors develop their craft. Students will broaden their understanding of literature and strengthen their skills as readers. Students will also study different writing styles. Students will write for different audiences and with different purposes.

ENGLISH 10

Credit: 1 Unit

This course focuses on genres like fiction, non-fiction, drama, and poetry. Classic and contemporary literature readings are the basis for literary and creative writing. This course also emphasizes prose revision for clarity and style. In addition, English 10 includes guidelines and practice for the Comprehensive English Regents.

ENGLISH 11

Credit: 1 Unit

Students can expect a heavy focus on preparation for the New York State Comprehensive English Regents, especially during the first semester. Emphasis is on reading and writing for critical analysis and evaluation. Literature studied includes short stories, essays, poems, novels and full-length plays. Responses to the literature are evaluated through written language primarily, and oral class discussion.

ENGLISH 12

Credit: 1 Unit

Students will read and respond to historically or culturally significant works of literature. Focus is on contrasting major periods, themes, styles and cultures, as well as philosophical, political and social influences of each period. Major essays will include narrative, compare/contrast, literary analysis, literary response, reflective composition, historical investigation, and research.

AP ENGLISH LANGUAGE AND COMPOSITION

Credit: 1 Unit

1. Successful completion of English 10 (the full course)
2. Average grade of 85% or better for each quarter of English 10
3. Completion of summer reading and writing
4. Or by special permission of the Principal

NOTE: This course is weighted 1.1 in class average.

The goal of the course is to further student understanding and appreciation of the English language, particularly language used to argue and persuade. The class will study the logic of English usage, increase vocabulary, and read writing that exemplifies precision and rhetorical force. In the first semester, content and assignments in the course will center on understanding and clarifying personal values, and weighing these against accepted societal values. The second semester will explore specific means of persuasion employed in American society. Articulate, deliberate, precise language will be encouraged and reinforced in writing assignments, oral reports, and class discussions.

AP ENGLISH LITERATURE AND COMPOSITION

Credit: 1 Unit

Prerequisites:

1. Successful completion of English 11 (the full course)
2. 85% or above on the NYS Comprehensive English Regents
3. Average grade of 85% or better for each quarter of English 11
4. Completion of summer reading and writing
5. Or by special permission of the Principal

NOTE: This course is weighted 1.1 in class average.

Students will be required to intensively study several representative works from various genres and periods. Through such study, students will sharpen their awareness of language and understanding of the writer's craft.

FAMILY AND CONSUMER SCIENCE

Family and Consumer Science courses are designed to help students become competent, confident, and caring in managing their work, family and community lives. Sequence focuses on Home and Personal Management.

CREATE YOUR OWN STYLE WITH CLOTHING

Credit: ½ Unit

Personal appearance, clothing design, construction, selection to meet individual needs, as well as cultural and historical aspects of clothing and textiles are investigated. Emphasis on specialized techniques for students interested in art, fashion and interior design.

CO-ED FOODS I/II

Credit: ½ Unit each semester

Students will perform the basic skills and techniques for food preparation and apply nutrition concepts to daily living.

APPLIED FOOD SCIENCE

Credit: 1 Unit

This course studies the scientific concepts and principles of food. Units of study include chemistry fundamentals, science of nutrition, chemistry of food, and microbiology of food processing.

HOUSING AND INTERIOR DESIGN

Credit: ½ Unit

Students will be exposed to the elements and principles of design as it applies to our living environment. Students will also develop consumer skills to evaluate appliances, equipment and furnishings.

CHILD DEVELOPMENT

Credit: ½ Unit

All students are members of current and future families. Understanding the dynamics of relationships is key to successful future in home, school, community and workplace settings. Employers stress the importance of employees demonstrating personal and interpersonal skills in the workplace.

The Human Services and Family Studies field is an important component of the economy of New York State and provides many opportunities for employment. This course will help students explore career opportunities in the field of child development and help them develop skills needed for employment.

LANGUAGES OTHER THAN ENGLISH: FRENCH, SPANISH

(1 Unit of LOTE is required for graduation)

The goal of second language learning is the achievement of functional communication in the context of the culture. In order to attain this goal, students will begin to develop proficiencies in listening, speaking, reading and writing at the beginning levels and will move to the most complex levels of the language. In addition, the student will gain a better appreciation for other cultures.

All students are required by New York State (unless exempted by IEP) to complete one year of a Language Other Than English.

SPANISH 1

Credit: 1 Unit

This beginning level is for students who have not taken Spanish before or for those who did not successfully pass Spanish 7 & 8 or the Spanish Proficiency exam. This course develops the student's ability to comprehend simple statements and questions. The student will also be able to initiate and respond to simple statements and manage conversation within the vocabulary and structure appropriate to his/her level.

Reading skills are developed so that a student comprehends the essentials of short, general statements. In writing, the student will express personal needs and compose messages providing information on a variety of topics using the present tense, incorporating relevant content, vocabulary and expressions. The goal is comprehensive communication with native speakers.

FRENCH/SPANISH—LEVEL II

Credit: 1 Unit

Students will be able to better comprehend conversations in everyday settings involving familiar topics.

Students will initiate conversations with others employing the proper verb order and correct word choice. Despite errors, the learner will be encouraged to speak in various communicative situations.

Students' reading skills of authentic materials and texts will improve. He/she will be able to respond to questions concerning the passages.

Level II stresses writing simple notes, letters and paragraphs that use more diverse vocabulary and structures. Students will use the present, past and future tense. Student writing is comprehensible to native speakers who often deal with beginning language learners.

The student will show an understanding of history, current events and contemporary issues of the target culture.

FRENCH/SPANISH—LEVEL III

Credit: 1 Unit

Students will fine tune their listening, speaking, reading, writing and cultural understanding through extensive preparation for the New York State Comprehensive Regents Exam.

Students will be able to socialize in typical situations using more complex sentence structures as well as a wider range of vocabulary by incorporating various verb tenses, necessary content vocabulary and expressions, all of which can be understood by native speakers familiar with foreigners. The student will attain knowledge of many aspects of the Francophone and/or Hispanic culture(s).

FRENCH & SPANISH LEVEL IV

Credit: 1 Unit

Prerequisites: passing grade on the French III or Spanish III

Regents exam, and a passing grade for French III or Spanish III.

These final years of French and Spanish expand upon and improve all five skills necessary for communication with natives. Communication in the target language is stressed through diversified classroom activities. Students will be able to function in various situations with native speakers who are familiar with foreigners. Students will continue to develop more fluency with the language. Auditory comprehension improves with constant use of French or Spanish.

Reading, writing and cultural proficiencies become more complex. A series of increasingly more demanding multimedia involving videos, computer technology, literature and research projects will require students to broaden their use of vocabulary and proper grammatical structure.

UNIVERSITY IN HIGH SCHOOL - UHS - LEVEL V - FRENCH or SPANISH

Credit: 3 College Credits (Local 1 Unit)

**Prerequisite: at least B average in all French/Spanish courses
or by permission of the principal**

Students can earn up to four SUNY Albany credits while still in high school. These credits form the basis of a permanent academic record that can be transferred to many colleges and universities throughout the country. The French and Spanish UHS courses provide students with the academic challenges of a college-level curriculum during their final year in High School. This “bridging” experience helps students begin to develop the skills necessary for academic success in higher education. It also allows students the opportunity to shorten the four-year college sequence by entering college with previously earned credit.

HEALTH AND PHYSICAL EDUCATION

($\frac{1}{2}$ Unit of Health and two units of Physical Education are required for graduation.)

HEALTH EDUCATION

Credit: $\frac{1}{2}$ Unit

This course is required for all High School students and is usually scheduled in 11th or 12th grade. The total person is stressed by recognizing physical, emotional, mental and social aspects of one's personality. Critical and current health issues are covered including drugs, tobacco and alcohol. Problems of obesity, proper nutrition, physical fitness, disease prevention and a sensible approach to human sexuality are discussed. Also included are first aid instruction, safety, decision making and consequences, and basic overall life skills.

PHYSICAL EDUCATION

Credit: $\frac{1}{2}$ Unit

The core of the regular gym classes centers around the seasonal sports with the opportunity to understand the objectives, techniques and skills necessary for success in these sports. Fall activities include physical fitness testing, field hockey, soccer, archery, touch football, and speedball. Winter activities include basketball, volleyball, floor hockey, badminton, and table tennis. Spring activities include lacrosse, track and field, softball, and tennis.

ADVANCED PHYSICAL EDUCATION

Credit: 1 Unit

Advanced Physical Education is a course designed to provide students with life-long fitness activities that can help them gain the knowledge and significance of maintaining a healthy and active life. This course will show students how to build and sustain strength, as well as present the importance of dynamic movement. *Advanced Physical Education* meets every day throughout the year and students earn a full unit of credit.

MATHEMATICS

(3 Units of Mathematics and one Regents examination are required for graduation. 4 years of Mathematics is strongly recommended for all college-bound students)

Special Notes: Credit granted for the Algebra course will be limited to two units (i.e. Integrated Algebra/ A and Integrated Algebra/ B Course will each be granted one credit).

INTEGRATED ALGEBRA

Credit: 1 Unit

Integrated Algebra is the first Regents mathematics course. Algebra provides tools and ways of thinking that are necessary for solving problems in a wide variety of disciplines, such as science, business, social sciences, fine arts, and technology. Topics include functions, coordinate geometry, systems of equations, measurement, data analysis, trigonometry, and probability theory.

INTEGRATED ALGEBRA A

Credit: 1 Unit

Integrated Algebra/A is a course designed for students who would benefit from an additional year of instruction in order to complete Integrated Algebra. Students will take Integrated Algebra/B after completing this course. (Year one of a two-year sequence.)

INTEGRATED ALGEBRA B

Credit: 1 Unit

Prerequisite: Integrated Algebra/ A

Integrated Algebra/B is the second part of a two year sequence to complete Integrated Algebra. Students will take the Integrated Algebra Regents exam at the end of this course. (Year two of a two-year sequence.)

GEOMETRY

Credit: 1 Unit

Prerequisite: Integrated Algebra

Geometry is the second Regents mathematics course. Within this course, students will have the opportunity to make conjectures about geometric situations in a variety of ways. Topics include congruence, similarity, transformations, circles, traditional tools of compass and straight edge as well as dynamic software, reasoning and proof.

GEOMETRY A**Credit: 1 Unit****Prerequisite: Integrated Algebra**

Geometry/ A is a course designed for students who would benefit from an additional year of instruction in order to complete Geometry. Students will take Geometry/ B after completing this course. (Year one of a two-year sequence.)

GEOMETRY B**Credit: 1 Unit****Prerequisite: Geometry/A**

Geometry/ B is the second part of a two year sequence to complete Geometry. Students will take the Geometry Regents at the end of this course. (Year two of a two-year sequence.) **Not offered in the 2010-2011 school year.**

GEOMETRY/ A-B**Credit: 1 Unit****Prerequisite: Integrated Algebra**

Geometry/ A-B is a course for students who would benefit from an additional $\frac{1}{2}$ year of instruction in order to complete Geometry. Students will take the Geometry Regents exam in June and/or January of the year following their enrollment. Students will take Geometry/ Trigonometry or Algebra 2/Trigonometry depending on successful completion of the Geometry Regents in June.

GEOMETRY/TRIGONOMETRY**Credit: 1 Unit****Prerequisite: Geometry A/B or those students who did not earn a Geometry credit**

During the first semester students will prepare to take the Geometry Regents in January. The second semester will be an introduction to advanced algebra and trigonometry topics. Students will then be eligible for Algebra 2/Trigonometry.

ALGEBRA 2/TRIGONOMETRY

Credit: 1 Unit

Prerequisite: Geometry or Geometry B or Geometry A/B if passed Geometry Regents in June

Algebra/Trigonometry 2 is the third Regents mathematics course. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Topics include imaginary and complex numbers, direct and indirect variation, data analysis, sequences, series, binomial experiments, circular functions, and trigonometric equations and identities.

ALGEBRA 2/TRIGONOMETRY A

Credit: 1 Unit

Prerequisites: Geometry or Geometry B or Geometry A/B if passed Geometry Regents in June

Algebra 2/Trigonometry/A is a course designed for students who would benefit from an additional year of instruction in order to complete Algebra 2/Trigonometry. Students will take Algebra 2/Trigonometry B after completing this course. (Year one of a two-year sequence.)

ALGEBRA 2 /TRIGONOMETRY B

Credit: 1 Unit

Prerequisite: Algebra 2/Trigonometry/A

Algebra 2 and Trigonometry B is the second part of a two year sequence to complete Algebra 2/Trigonometry. Students will take the Algebra 2/Trigonometry Regents at the end of this course. (Year two of a two-year sequence.)

PRE-CALCULUS

Credit: 1 Unit ($\frac{1}{2}$ per semester)

Prerequisite: Algebra 2 and Trigonometry/ A-B

An extension of algebra and trigonometry that involves topics in theory of equations, analytic geometry and calculus. An extension of analytic geometry, this course includes the study of calculus-derivatives of functions, integrals and problem solving using derivatives and graphs. The purchase of a graphing calculator is highly recommended. See instructor for details.

AP CALCULUS

Credit: 1 Unit

Prerequisites:

1. Passing final average of 85% or higher in Pre-Calculus
2. By special permission of the Principal

Note: This course is weighted 1.1 in class average.

This course includes the study of functions, graphs, limits, derivatives and integrals. The purchase of a graphing calculator is highly recommended. See instructor for details.

AP STATISTICS

Credit: 1 Unit

Prerequisite:

1. Passing final average of 85% or higher in Algebra 2/
Trigonometry
2. By special permission of the Principal

Note: This course is weighted 1.1 in class average.

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students who successfully complete the course may receive credit and/or advanced placement for a one-semester introductory college statistics course.

SCIENCE

(3 Units (2 with Lab components) of Science and 1 Regents Exam are required for graduation.)

Special Note: A Technology/Agriculture course may be approved for substitution for one unit in Math/Science, after a Regents exam is passed. It may be used in Science or Math, but not both.

EARTH SCIENCE

Credit: 1 Unit

Topics include changing environment, measurements of the Earth, motions of the Earth, energy in Earth processes, isolation and the seasons, energy exchanges in the atmosphere, energy and climate, weather, erosion, formation of rocks, the dynamic crust, the Earth's interior, interpreting geologic history, landscape development and environmental change. In order for students to be eligible for the Earth Science Regents, they must complete 1200 minutes of laboratory experience with satisfactory written reports for each investigation.

LIVING ENVIRONMENT

Credit: 1 Unit

This course is designed to prepare students to explain both accurately and with appropriate depth the most important ideas about our living environment. Topics include: Photosynthesis, Cell Respiration, Bio-Chemistry, Genetics, Cell Division, Protein Synthesis and Ecology, as well as an in-depth study of Human Body Systems. The course also has a required Laboratory component that is critical to understanding. In order for students to be eligible for the Living Environment Regents, they must complete 1200 minutes of laboratory experience with satisfactory written reports for each investigation.

CHEMISTRY

Credit: 1 Unit

Prerequisite: Successful passing the Integrated Algebra exam

The fundamentals of Chemistry are presented from the viewpoint of the periodic classifications of the elements. Topics include: matter, energy, atomic theory and quantum theory, periodic table, chemical bonding, mathematics of chemistry—moles/stoichiometry (requiring heavy use of algebra), physical behavior of matter, kinetics and equilibrium, acids and bases, oxidation/reduction, organic chemistry, and nuclear chemistry. In order for students to be eligible for the Chemistry Regents, they must complete 1200 minutes of laboratory experience with satisfactory written reports for each investigation.

PHYSICS

Credit: 1 Unit

Prerequisite: Integrated Algebra & Geometry, recommended Intro. to Trig. and Advanced Algebra

An elective that integrates basic physical concepts and their applications to current problems. Course work will not be calculus-based, but relies heavily on algebra and trigonometry. Topics include: mechanics-linear motion, two-dimensional motion, forces, circular motion, momentum, energy, light and sound waves, electricity and magnetism, and modern physics (subatomic particles). Assignments are frequently math-based, and result from both class and lab work. In order for students to be eligible for the Physics Regents, they must complete 1200 minutes of laboratory experience with satisfactory written reports for each investigation

CRIMINAL INVESTIGATION AND FORENSICS

Credit: 1 unit

Open to Grade 11 & 12

Prerequisite: Living Environment & Chemistry credits earned

This interdisciplinary course will investigate the field of forensics from scientific and legal points of view. By studying historically significant cases, legal obligations and admissibility of forensic evidence in the courtroom the student will gain a basic understanding of the importance of forensic evidence in solving crimes. Students will explore forensic laboratory techniques such as fingerprint analysis, blood typing, microscopic examination of evidence and DNA fingerprinting, among other topics. Solving the mystery of “who done it” at a mock crime scene will test the skills.

UNIVERSITY IN THE HIGH SCHOOL SCIENCE

Credit: 1 Unit (Local), up to 12 credits from SUNY Albany

Students learn research methodology in the natural and social sciences by accessing scientific databases, on-line bibliographic search techniques, consulting and acquiring doctoral-level research scholars as mentors, developing their own hypotheses and performing experiments to test them, and by writing research papers and making presentations at scientific symposia and competitions.

Requirements: Biology average of 80% or better. An overall average of 84% or better. Students will take Regents level, AP level or higher in science all four years of high school. 90 hours of Summer work is required each year.

AP BIOLOGY

Credit: 1 Unit

Prerequisites:

1. Successful completion of Living Environment AND Chemistry with an 85% on the Regents exam
2. Or by special permission of the Principal

NOTE: The course is weighted 1.1 in class average.

This course is designed to be the equivalent of a college introductory Biology course usually taken by Biology majors during their Freshman year of college. Interested students should realize that this course is demanding and requires a discipline to do work beyond what is expected in the Regents Biology course. See the AP section of this planning guide for more information.

AP ENVIRONMENTAL SCIENCE

Credit: 1 Unit

Prerequisites:

1. Successful completion of Living Environment and Chemistry
2. At least an 85% on the Living Environment and Chemistry Regents exams
3. Or by special permission of the Principal

Environmental Science involves the use and understanding of many disciplines, including biology, chemistry, earth science, agricultural science, politics, government, economics and medicine. The natural environment is a tremendously complex and poorly understood system. As we progress through the year, the student will experience how each discipline listed above, as well as others, is used by environmental scientists to understand and predict the effects that changes, including those caused by the human population, have on the natural world. Computer analysis and simulations as well as laboratory analysis are among the tools Environmental Science students will use in this attempt. In addition, students will study how environmental issues have political, social and economic ramifications.

SOCIAL STUDIES

(4 Units of Social Studies and 2 Regents Exams are required for graduation.)

GLOBAL HISTORY & GEOGRAPHY I

Credit: 1 Unit

Global History & Geography is a two-year course culminating with a Regents exam at the end of the second year. The first year of study includes these units: Ancient Civilizations and Religion, Expanding Zones of Exchange and Encounters, and Global Interactions.

GLOBAL HISTORY & GEOGRAPHY II

Credit: 1 Unit

The second year of study includes these units: An Age of Revolutions, A Half-Century of Crisis and Achievement, The 20th Century Since 1945, and Global Connections and Interactions. The Global History Regents exam is taken at the end of the year.

ADVANCED GLOBAL HISTORY AND GEOGRAPHY

Credit: 1 Unit

Students will be required to read more extensively and write more in this course that combines the two year Global History and Geography curriculum in to a one year course. Upon satisfactory completion of the course students will be eligible to take Advanced Placement European History in 10th grade.

U.S. HISTORY AND GOVERNMENT

Credit: 1 Unit

This course chronologically studies American history and government from the late colonial period to the present. Emphasis is placed on the post Civil War period and on the development of the U.S. Constitution and governmental system. A variety of skills including analysis, evaluation, research and an understanding of different historical resources are emphasized. The final exam is the United States History and Government Regents.

AMERICAN POLITICAL & ECONOMIC THEORY

Credit: 1 Unit

This course will cover the basic concepts and practices of our economic and governmental systems from the individual and local level to the national and international level. In each area the students will analyze the various methods of making policy and its implementation. The course is designed to be student friendly in allowing for interactive participation by means of class discussions and written material. The emphasis will be on drawing inferences, from analyzed factual data and projection of theoretical policy on learned issues.

SOCIOLOGY / PSYCHOLOGY

Credit: $\frac{1}{2}$ Unit each

Open to Seniors first, Juniors next and then underclassmen will be considered.

(Sociology) The scientific study of principles and comparisons in society and culture as these relate to population and communities, behavior systems, group collectivity and structure, social change and institutions. Items that may be addressed include social problems, domestic violence and race, as well as the sociology of sport.

(Psychology) Areas of study are drawn from: methodology of psychology, development, perception, learning, memory, motivation, intelligence, personality, abnormal behavior and social psychology.

AP EUROPEAN HISTORY

Credit: 1 Unit

Prerequisites:

1. An average of 85% or better in US History & Government
2. An 85% or higher on the US History and Government Regents exam
3. Or by special permission of the Principal.

NOTE: This course is weighted 1.1 in class average.

A year-long survey of European history from the Renaissance to the present introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the world. The course is designed to be the equivalent of a freshman college course. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Besides listening to occasional lectures or PowerPoint presentations on important themes, the students are expected to participate verbally through discussions of primary documents and events, debate key issues, continually develop their writing skills through regular short essays and essay exams, strengthen skills in taking objective exams, and participate in cooperative learning exercises. See the AP section of this planning guide for more information.

AP U.S. GOVERNMENT AND POLITICS

Credit: 1 Unit

Prerequisites:

1. Successful completion of US History & Government
2. An average of 85% or better in US History & Government
3. An 85% or higher on the US History and Government Regents exam
4. Or by special permission of the Principal.

NOTE: This course is weighted 1.1 in class average.

Advanced Placement and Government is a college level course designed to prepare students for the Advanced Placement U.S. Government and Politics examination. The course is designed to give students an analytical perspective on government and politics (both formal and informal structures) and acquaint students with the variety of theoretical perspectives and explanations for various behaviors and outcomes. See the AP section of this planning guide for more information.

AP U.S. HISTORY

Credit: 1 Unit

Prerequisites:

1. An average grade of 85% or better for Global II
2. Or by special permission of the Principal.

NOTE: This course is weighted 1.1 in class average

AP U.S. History places attention upon understandings equivalent to those gained in a college-level course. The emphasis will be on political, social and economic history of the U.S. from the colonial period through the present. The AP course will place a heavy emphasis on the student's ability to analyze logically and evaluate critically. It is understood that the student will assume responsibility for acquiring important factual knowledge. Such understanding will be necessary to benefit from the class discussion and organized activities dealing with historical interpretation and theory. See the AP section of this planning guide for more information.

TECHNOLOGY EDUCATION

WOODWORKING

Credit: 1 Unit

This course combines construction systems and residential structures into the study of construction techniques on-site. Course projects will range from small production to residential structures and include input and resources (e.g. planning, materials, supplies), processes (e.g. framing, roofing, plumbing, insulation), and output and controls (quality assurance, environmental impact, economic consequences).

RESIDENTIAL STRUCTURES

Credit: 1 Unit

This is an introductory course designed to inform students about the basic fundamentals and principles of construction technology. The course includes orientation to the trade such as; design & planning, site work, materials and supplies, and building systems (foundations, framing, roofing, and utilities). The course will include some hands-on learning activities when applicable.

DESIGN AND DRAWING FOR PRODUCTION

Credit: 1 Unit

Design and Drawing for Production (DDP) is a high school level course that is appropriate for students who are interested in design and engineering. An emphasis will be placed on the design process of a product and how a model of that project is produced, analyzed, and evaluated. Students will use 3-D modeling software that is currently used in industry and will create products that are capable of being produced.

INNOVATION AND ENGINEERING DESIGN

Credit: 1 Unit

Innovation and Engineering Design is an activities-oriented program designed to challenge and engage the student who is interested in solving today's high tech problems. This course focuses on the problem-solving model and challenges kids to plan, create, and implement solutions to complex problems. This course will touch on a series of topics including electronics, robotics, aerospace, and design and will be taught in conjunction with a rigorous academic curriculum.

PRINCIPLES OF ENGINEERING

Credit: 1 Unit

This course provides an overview of the various engineering fields including electrical, environmental, civil, mechanical and computer engineering. Through theory, problem solving, geometry and trigonometry along with practical hands-on experiences, students will work on a wide range of design problems and solutions using state of the art tools such as *Autodesk Inventor* 3D Modeling, *RoboPro* robotic programming software, prototype building and precision measurement. The course also includes concerns about social and political consequences of technological change.

BOCES Occupational Education

SOUTHERN ADIRONDACK EDUCATIONAL CENTER

Career & Technical Training courses are conducted at the BOCES Center in Hudson Falls. They are recommended for Juniors and Seniors only. (4 units per year of participation)

- Auto Body Repair
- Auto Technology
- Cisco Networking
- Conservation
- Construction Building Trades
- Cosmetology
- Criminal Justice Studies
- Culinary Arts
- Early Childhood Education
- Graphic Arts Technology
- Heating, Ventilation, Air Conditioning & Refrigeration
- Heavy Equipment Operation & Maintenance
- Horse Care (Saratoga)
- Horticulture / Landscaping
- Machine Tool Technology
- Mechanical Technology
- Medical Assisting / Health Occupation
- Nurse Assisting
- Office & Computer Technology
- Outdoor Power Technology
- Practical Nursing
- Television Broadcasting & Cinematography
- Welding

BOCES New Visions Program

New Visions programs are academically rigorous courses for college-bound high school seniors who plan to major in the following disciplines: Engineering, Health/Medicine, and Theatre Arts. New Visions programs provide students with a competitive edge when applying for college admissions because their advanced studies include work experience alongside industry professionals in a variety of disciplines.

ENGINEERING

A one-year program that combines calculus and physics with instruction in engineering principles. Progressing through rotations, students observe and participate in practical field work. Lab experiments are conducted at Adirondack Community College; rotations occur at engineering sites.

HEALTH CAREERS EXPLORATION

A one-year program in which students learn and work in a hospital setting alongside physicians, physician assistants, and physical therapists. Students receive classroom instruction two days per week and attend clinical rotations in a variety of health professions three days per week. New Visions Health Careers Explorations is located in Wesley Health Care Center and Glens Falls Hospital. Rotations occur at both these facilities and at private practices and clinics throughout the Saratoga and Glens Falls areas.

THEATRE ARTS

A one-year program that integrates the core courses thematically through the discipline of theatre, both classical and contemporary forms. High school seniors gain experience and knowledge in the performance, design, and technical areas of theatre while working with professional directors, designers, actors, technicians, and producers. New Visions Theatre Arts is located in the Black Box Studio at the F. Donald Myers Education Center.

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Junior—Senior High School

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