

SOUTHERN CAYUGA CENTRAL SCHOOL DISTRICT

SOUTHERN CAYUGA HIGH SCHOOL



2009-2010 COURSE OFFERINGS GUIDE



Mission Statement: The challenge to the Southern Cayuga CSD is to create an environment that promotes the pursuit of excellence and a lifelong love of learning. This is achieved by encouraging high expectations, self-motivation, self-esteem, and positive values throughout our school community.

Dear Parents and Student:

Planning one's high school courses is an important part of moving toward the adult world. Cooperative planning by students, families and counselors includes:

- assessing the student's interests and abilities
- relating interests and abilities to adult careers
- relating preferences for certain school subjects to occupational preferences
- trying to find out what options are open
- learning to make decisions

This booklet describes what our school offers and what state regulations require. Eighth graders have already been introduced to high school and vocational planning. Program planning is done with the assistance of a counselor, and parents are most welcome to consult with counselors if they wish. Tentative programs are sent home for all grade levels. Please review the list of courses and call if you have questions or concerns.

Sincerely,

Bernie DeGraw
HS Guidance Coordinator

Luke Carnicelli
HS Principal

COLLEGE CREDIT

Students registering to take advanced placement or college credit courses should contact the college they plan to attend in advance of registering to ensure that the institution will grant credit for this work. Students taking courses associated with CCC or TC3 can be reasonably certain that credit will transfer to most SUNY/CUNY schools.

A.P./SUPA/CCC or other college credit courses will have additional costs for either the exam or for the awarding of college credit. If you register for an A.P. course you must take the A.P. Exam. All payments for college courses are due before the course begins. In the event the student drops the course, the fee may be returned up to two weeks after the semester begins. Payments for AP exams are due after the 1st semester.

ONLINE OR COLLEGE COURSES FOR HIGH SCHOOL CREDIT:

Any course taken from anyone other than a Southern Cayuga Central School instructor to be used as High School Credit must be pre-approved by the High School Principal.

STATEMENT ON NON-DISCRIMINATION

The Southern Cayuga Central School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and has adopted grievance procedures that provide for prompt and equitable resolution of complaints alleging discrimination.

The following person has been designated to handle inquiries regarding the non-discrimination policies:
Compliance Officer: Patricia Hamlin, Southern Cayuga CSD (315-364-7111)

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GRADUATION REQUIREMENTS

Graduation requirements for each diploma type are listed on the attached pages. The Board of Regents, which sets standards for schools in New York State, has made many important changes in requirements for graduation. **All SCHS students, starting with the 9th grade class of 2008, are required to obtain a Regents diploma, pass all Regents exams (min 65%), and earn 26 HS credits.** Guidance staff/Principal will assist students in planning their program to ensure completion of requirements; students must realize the necessity of meeting all the requirements.

For more specific information on graduation requirements please see the SCHS website:

(<http://www.southern cayuga.org/High/HighIndex.htm>) or the NYS Education Department link:

(http://www.emsc.nysed.gov/ciai/gradreq/GradReq3columnStyle7_1.pdf)

Requirements include:

1. a prescribed number of total units (22 or 26)
2. certain required subjects
3. testing requirements (Competency, Regents, or Proficiency exams)
4. requirements of major sequence

YEARLY LOOK AT HIGH SCHOOL

Advanced Regents Diploma [Total Credits needed for graduation: 22 (grades 11 & 12), 26 (grades 9 & 10)]

9th Grade:	10th Grade	11th Grade	12th Grade
English 9	English 10	English 11*	English 12
Global Studies 9	Global Studies 10*	US History & Gov't*	Government
Algebra	Geometry	Trigonometry	Economics
Earth Science*	Living Environment*	Chemistry/3 rd Science	Elective
Language 2	Language 3*	Elective	Elective
Studio/Music/DDP	Health/Elective	Elective	Elective
High School Success I	High School Success II	Elective	Elective
PE 9/Lab	PE 10/Lab	PE 11/Advisement	PE 12/ Advisement
Total Credits: 7 ½	Total Credits: 7½	Total Credits: 6 ½	Total Credits: 6 ½

Note: * indicates regents exam that must be passed

For Foreign Language: Students who wish to substitute a 5-unit sequence in CTE, Music or Art in place of the 3 years of Language must check with their counselor to make sure the graduation requirements will be met.

Regents Diploma [Total Credits needed for graduation: 22 (grades 11 & 12), 26 (grades 9 & 10)]

9th Grade:	10th Grade	11th Grade	12th Grade
English 9	English 10	English 11*	English 12
Global Studies 9	Global Studies 10*	US History & Gov't*	Government
Algebra	Geometry	Trigonometry/3 rd Math	Economics
1 st Science*	2 nd Science	3 rd Science	Elective
Language 2	Health/Elective	Elective	Elective
Studio /Music/DDP	Languages	Elective	Elective
High School Success I	High School Success II	Elective	Elective
PE 9/Lab	PE 10/Lab	PE 11/Advisement	PE 12/ Advisement
Total Credits: 7 ½	Total Credits: 7 ½	Total Credits: 7 ½	Total Credits: 6 ½

Note: * indicates regents exam that must be passed with a 65 or higher

Local Diploma [Grades 11 & 12 only] (Total Credits needed for graduation: 22)

9th Grade:	10th Grade	11th Grade	12th Grade
English 9	English 10	English 11**	English 12
Global Studies 9	Global Studies 10**	US History & Gov't**	Government
Pre Algebra or Algebra	Algebra or Geometry	Geometry or 3 rd Math	Economics
1 st Science**	2 nd Science	3 rd Science	Elective
Language 2	Health/Elective	Elective	Elective
Studio /Music/DDP	Elective	Elective	Elective
Elective	Elective	Elective	Elective
PE 9	PE 10	PE 11/Advisement	PE 12/ Advisement
Total Credits: 7 ½	Total Credits: 7 ½	Total Credits: 7 ½	Total Credits: 6 ½

Note: ** The NY State Board of Regents is currently phasing out the local diploma. **Only students in the class of 2010 & 2011 are eligible for local diploma.** Each class entering 9th grade has different requirements relating to the regents' exams marked **. Please see/call your child's guidance counselor for more specific information.

COURSE OFFERINGS 2009-2010

Bold denotes new course for 2009-2010 school year.

English

English 9
Honors English 9
English 10
Honors English 10
English 11
Honors English 11
English 12

AP English/CCC English (ENGL 101 & 102)

The History and Structure of the English Language
Creative Writing

Broadcast Journalism I

Broadcast Journalism II

Drama/Theater

Social Studies

Global History and Geography 9
Honors Global History and Geography 9
Global History and Geography 10

AP World History 10

US History and Government

AP American History 11

Government in Action

Economics

AP Economics

SU Public Affairs (PAF 101)

Investigating Local History

Current Events

Mathematics

Integrated Algebra

Geometry

Algebra2/Trigonometry

Intermediate Algebra

CCC College Algebra and Trigonometry (MATH 104)

CCC Pre-Calculus (MATH 106)

AP Calculus/CCC Calculus I (MATH 108)

Science

Intro to Environmental Science

Earth Science

Living Environment

Adv. Biology/CCC Biology (BIOL 103)

Chemistry

Adv. Chemistry/CCC Chemistry (CHEM 103)

Applied Physics/POE II

TC3 Astronomy (AST 101)

Anatomy

Art

Studio Art

Studio Art II

Sculpture

Drawing & Painting

Photography

Graphic Arts

Music

Band

Chorus

Piano Keyboarding/Music Theory

Jazz Band

Agriculture -- CTE

Agricultural Production

Exploring Agriculture

Advanced Agricultural Mechanics

Pre-Vet Science

Plant Science

Small Engines

Metal Fabrication

Business -- CTE

Keyboarding/Communications

Career and Financial Management

Career and Financial Management – Business

Math & Financial Applications/Business Math

Marketing in Sports Entertainment

Business of the Music Industry

Retailing

Business & Personal Law

Technology -- CTE

Production Systems

**Energy Applications

Drawing & Design for Production

Computer Aided Drafting & Manufacturing (CAD/CAM)

Creativity & Innovation (Articulation w/ CCC)

Material Processing (Articulation w/ CCC)

*Principles of Engineering (POE)

Foreign Language

French II

French III

French IV/CCC Elementary French (FREN 101 & 102)

French V/CCC Intermediate French (FREN 103 & 104)

Spanish I

Spanish II

Spanish III

Spanish IV/CCC Elementary Spanish (SPAN 101 & 102)

Spanish V

PE/Other courses

Physical Education (required each year)

Life Guarding

Health

Current Events in Health, Medicine & Psychology

High School Success I

High School Success II

Graduation Mentorship

Driver Education

Independent Study (See Guidance)

BOCES (See Guidance)

NOTE: Exceptions to prerequisites may be made only with the consent of the teacher and the high school principal.

* Meets 3rd year graduation requirements for math

**Meets 3rd year graduation requirements for science

Underline: denotes possible AP or college credit

Note: Most classes will need a minimum enrollment of 15 students. Many of our electives are now offered on a bi-yearly rotation.

ENGLISH

TITLE: English 9

1 Credit

Prerequisite: Successful completion of English 8.

Course Description: The 9th grade English program is designed to develop skills in the basic areas of reading (literature), writing, listening, speaking, and research skills. Attention is given to grammar and vocabulary skills, the study of literacy elements and techniques, and computer-aided drafting.

Students will read selections of short stories, non-fiction works, two novels, two plays, and selected poetry. Students will also engage in the independent reading program where students read books of their choice throughout the year based on a list of recommended reading. Students will research and study historical connections to the literature they read and analyze how authors use literary elements and techniques.

The writing program reflects a multiple-draft and portfolio assessment approach where students work through a series of writing and revision, analyzing and improving on their own personal weaknesses throughout the year. Students write several expository pieces, including description, narration, persuasion, and literary analysis. Creative writing is also explored through personal memoir, fiction, and original poetry. Writing journals are used to encourage personal reflection about topics explored in class and responses to literature. Students write a 5-page research paper with citations and a works cited page.

Students give 3-5 minute speeches on their research paper topics as well as several impromptu speeches throughout the year. Presentations by groups on topics of study as well as a performance by students of "Romeo and Juliet" are given. Students are encouraged to work cooperatively in groups, and a strong emphasis on group goal setting and collaboration is encouraged through the year.

TITLE: Honors English 9

1 Credit

Prerequisite: An overall average of at least 90% in English 8, teacher recommendations, and possible entrance exam may be administered. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: A more intensive version of English 9 for students who show aptitude in English Language Arts. The course is faster-paced and involves more in-depth research and discussion of topics and literature. Students must be able to work well both independently and cooperatively in groups and must be motivated to complete a more strenuous workload than English 9.

TITLE: English 10

1 Credit

Prerequisite: Successful completion of English 9.

Course Description: English 10 is designed to continue the development of skills in reading, writing, speech and computer literacy.

English 10 is an intensive study of various literary genres. The student will read 15 short stories, selected poetry, 3 or 4 full-length plays and at least 2 full-length novels, plus outside reading.

The course also includes work in a variety of composition forms including: description, narration and expository writing. In order to receive credit for the course, the student must successfully complete a 3000 word research paper, which adheres to the criteria presented in class. Use of the word processor will be required for a variety of writing assignments, depending upon the availability of computer lab facilities.

TITLE: Honors English 10

1 Credit

Prerequisite: English 9, cumulative average of 90% or better in English, teacher recommendations, and possible entrance exam may be administered. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: This writing intensive course provides students with the opportunity to examine the English 10 curriculum in a more in-depth, analytical fashion. Students will be required to demonstrate adeptness in oral presentation and research skills. The workload is rigorous, and the writing assignments are challenging.

In order to receive credit for the course, the student must successfully complete a 3000 word research paper, which adheres to the criteria presented in class. Use of the word processor will be required for a variety of writing assignments, depending upon the availability of computer lab facilities.

TITLE: English 11

1 Credit

Prerequisite: Successful completion of English 10.

Course Description: English 11 continues to foster the development of the skills of reading and critical analysis of literature, writing for personal expression and literary response, listening, and speaking.

The course also reviews research skills and the use of current technologies, such as the use of CD-ROM resources, the Internet, and word processing. The course includes a comprehensive review for the New York State Regents Examination.

Passing the Regents Exam is a requirement for graduation.

Several full-length works of American fiction and non-fiction are read and examined in detail. Works studied may include *The Catcher in the Rye*, *The Adventures of Huckleberry Finn*, *Fahrenheit 451*, "The Glass Menagerie", "Death of a Salesman", and *A Yellow Raft in Blue Water*. Selections from *The American Tradition in Literature*, an anthology of shorter works and poems, will also be read. Although the primary focus is American literature, Shakespeare's *Mac Beth* is also explored.

The course also includes grammatical review, word analysis and vocabulary development, an introduction to the college application process, and preparation for the SAT. Use of a word processor will be required for a variety of writing assignments.

TITLE: Honors English 11

1 Credit

Prerequisite: Successful completion of English 10, cumulative average of 90% or better in English, teacher recommendation, and possible entrance exam may be administered. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: A more advanced version of English 11, which will focus on the enhancement of both reading skills and critical analysis of literature. This writing intensive course will serve as preparation for CCC English.

TITLE: English 12

1 Credit

Prerequisite: Successful completion of English 11.

Course Description: English 12 is designed to enhance the student's understanding and skill level in writing, reading and speaking, using increasingly more complex and sophisticated techniques.

Emphasis is placed on the process of writing and features both expository and creative writing. Students are introduced to numerous modes of writing and also write analytical and interpretive papers in response to specific works of literature. In order to receive credit for the course, the student must successfully complete a 4,000 word research paper.

Use of the word processor will be required for a variety of writing assignments. The study of literature is designed to enhance the student's literary and cultural background. Prose and plays from the Anglo-Saxon Age, the Medieval Period, the Renaissance, the Age of Reason, the Romantic and Victorian Periods, as well as 20th century literature are studied.

TITLE: AP English and/or CCC English 101 & 102

1 HS Credit/6 college cr.

Prerequisite: Successful completion of English 11, cumulative average of 90% or better in English, teacher recommendations, and possible entrance exam may be administered. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: This course may be offered for 6 college credits. (**ENGL 101 Freshman English I**): Basic composition course includes reading expository prose and short stories, writing expository themes, and practicum research techniques. (**ENGL 102 Freshman English II**): Continuation of ENGL 101. Includes introduction to literature (novel, drama, poetry) and writing critical themes based on readings. The workload is strenuous as a total of 20 novels and plays by American and European authors, as well as numerous short stories and poems are read. An emphasis is placed on analytical and interpretative writing. Students will also write a 4,500 word research paper. Papers (typed) will be required for a variety of writing assignments, depending upon the availability of computer lab facilities. This course is an excellent introduction to college level studies. Students may also take the AP exam in May. Upon successful completion of this course, students may earn six undergraduate credits from Cayuga Community College. **Students will be expected to pay the enrollment fee and/or exam fee prior to the start of the course.**

TITLE: The History and Structure of the English Language

1/2 Credit

Prerequisite: Junior or Senior Standing.

Course Description: For college-bound students, a more intensive study of the structure, grammar, and mechanics of English will build a solid foundation of writing skills to prepare them for college writing and beyond. Through exercises, analysis, and writing, students will review and explore the basic structures of English.

This will be coupled with an investigation into the history of English, from its Indo-European roots through Modern English.

Language is continually evolving, and English will continue to grow and change. How did English develop? Attention will be paid to how historical events affected the development of the language.

TITLE: Creative Writing

1/2 Credit

Prerequisites: Junior or Senior Standing.

Course Description: This will be a writing-intensive course, in which students will develop their creative writing skill by working through the process of writing, as professional writers do.

Pre-writing and revision will receive special attention, as we look toward the goal of developing pieces of writing, which fully meet the writers' intentions and expectations. Creative exercise will be used to foster the writers' individual voices, as well as their ability to make full use of technique and effect.

Frequent and regular writing will be an essential component of this course, as will cooperative conferencing. Your desire to work hard will be much more important than any natural talent.

TITLE: Broadcast Journalism I 1 Credit

Prerequisites: None

Course Description: Journalism course is designed to introduce students to the practice of researching, gathering, writing and distributing news via different mediums. Course will cover the history of free press in America, the role of a free press in a democratic society, study of and practice in research and interview skills, study of and practice in news writing skills, as well as study of the business of news distribution, the roles of print vs. electronic media, and an examination of journalistic ethics. This course will include regular exposure to and discussion of the reporting of contemporary news stories by both the local media outlets and national outlets. The course will also introduce a video production of the morning announcements with news, weather, sports, etc... as well as production of a school newspaper and yearbook. This course will be co-taught between the English and technology departments.

*Cross-content credit with CTE.

TITLE: Broadcast Journalism II 1 Credit

Prerequisites: Broadcast Journalism I

Course Description: Broadcast Journalism II- building on skills learned in Broadcast Journalism I, students will continue to strengthen their reporting, researching, writing and speaking abilities, while acting as leaders and mentors to new students taking Broadcast Journalism I. Second year students will also learn to edit copy for print and broadcast, direct production of filmed reports, as well as write headlines and picture captions for print. This course will be co-taught between the English and technology departments.

*Cross-content credit with CTE.

TITLE: Theater/Drama 1/2 Credit

Prerequisite: None

Course Description: This elective is a multi-faceted 20-week course, which will include analysis, performance, and writing. Students will study monologues, dialogues, scenes, and full length plays. Playwrights to be studied include: Eugene O'Neill, Arthur Miller, Tennessee Williams, Beth Henley, Tina Howe and others. Students will learn basic acting techniques, and engage in improvisational scenes, and other stage activities. Students will also write original monologues, and scenes.

SOCIAL STUDIES

TITLE: Global History and Geography 9 1 Credit

Prerequisites: Completion of 8th grade Social Studies.

Course Description: Global History 9 is the first half of a two-year social studies sequence. This course presents a chronological approach to global history, although at times chronology will be suspended to explore a topic in depth. In this course, students will develop a sense of time frames, explore different periods and examine themes across time and place. Human and physical geography will be strongly emphasized. During the first year of this sequence, students will begin with the student of ancient civilizations and end with the Age of Exploration of the eighteenth century.

Besides class work and homework, each student will be responsible for a keeping a well organized notebook of topics studied to take with him/her to Global History 10. At the end of the year, students will take a summative final exam assessing knowledge of the 9th grade content.

TITLE: Honors World History 9 1 credit

Prerequisites: Completion of Social Studies 8, cumulative average of 90% or better in SS, teacher recommendations, possible entrance exam may be administered. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: World History Honors 9 class is designed to follow the first half of the AP World History course, focusing students on the five social studies standards, common themes that recur across time and place, and eight historical eras.

In this year, the students will complete the first four historical eras, while the remaining era will be completed in AP World History 10. Students are expected to meet higher expectations when studying and analyzing selected social, economic and political systems of the world while refining the skills of note taking, researching, essay writing and critical thinking.

This course is designed to introduce and prepare students for the AP World History exam and the Global History and Geography Regents exam, both taken at the completion of this two-year course of study. Students who do not maintain an average of 80% at the end of the 3rd marking period in this course may be transferred to the regular Global History and Geography 9 course of study.

TITLE: Global History and Geography 10

1 Credit

Prerequisites: Successful completion of Global History 9.

Course Description: This course is a continuation of the chronological study of world history that began in the 9th grade Global History course. Students will make connections between historical events and modern global issues. This course will begin with the analysis of world history from the Age of Absolutism and continue to current society. It will include the achievements and conflicts that occurred during these historical periods.

Students will be evaluated with weekly quizzes, exams and homework. Students will also contribute to group projects and individual reports. Students must pass the Global History Regents exam at the end of this course. Students will be responsible for keeping a well-organized notebook in preparation for the Regents exam.

TITLE: AP World History 10

1 Credit

Prerequisites: Successful completion of Honors World History 9 and/or recommendations of the Guidance counselor and social studies teacher. Students must successfully complete a placement exam to be administered in May of their 9th grade year, and have an average of 90% or higher in their 9th grade social studies class. Students will be expected to complete a summer reading assignment before the class begins. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: Advanced Placement World History 10 covers the second half of the College Board's AP World History course and will prepare students for the AP exam in May of their sophomore year. World History is designed to focus on the five social studies standards and major historical developments that link the six themes of civilizations in Asia, Africa, Europe and the Americas. In the 10th grade, students will cover the 17th century to the present day.

This course is a continuation of Honors Global Studies 9. Students will study and analyze the interaction among major societies, the relationship of change and continuity across historical time periods, the impact of technology and demography on people and the environment, systems of social structure and gender structure, cultural and intellectual developments within societies and changes in function and attitudes towards states and political identities, including the emergence of nation states. Students will be expected to complete rigorous homework assignments and outside reading assignments. They will also take exams and write essays in preparation for their AP exam administered in May. Students must pay for the cost of this exam, but may earn college credit for a score of 3, 4, or 5. Due to New York State diploma requirements, students must also pass the Global History and Geography Regents exam in June. **Students will be expected to pay the AP examination fee prior to the exam.**

TITLE: U.S. History and Government

1 Credit

Prerequisites: Successful completion of Global History 9 & 10.

Course Description: This course will begin with a quick examination of the geographic significance of the United States, followed by the investigation of American History stemming from the colonial era to the present day. A thorough analysis of the United States Constitution and significant Supreme Court cases will be conducted through the year.

In addition to a regular homework assignments, several supplementary readings, research projects, quizzes and marking period exams will be used to determine course averages. In lieu of State mandates, students must pass the US History and Government Regents Exam at the end of the year to meet graduation requirements.

TITLE: AP American History 11

1 Credit

Prerequisite: Successful completion of Honors World History 10 and/or recommendations of the Guidance counselor and social studies teacher. Students must successfully complete a placement exam to be administered in May of their 10th grade year, and have an average of 90% or higher in their 10th grade social studies class. Students will be required to complete a summer reading assignment before entering the class in September. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: Students taking this course will learn the essential events and changes that occurred in America during 10 major time periods beginning with Colonization and until the present time. An additional unit will include an analysis of the United States Constitution.

By completing this course, students will have a firmer understanding of the events that have shaped present American society and government. Students will be expected to complete rigorous homework and reading assignments as well as AP styled quizzes and exams. At the end of the year, students will take the United States History and Government Regents exam to meet state and local diploma requirements.

Students will follow the AP Board approved syllabus in preparation for the AP American History exam, which will be administered in May. Students earning a 3, 4 or 5 on this exam can expect to be given college credit when entering the college of their choice.

Students will be expected to pay the AP examination fee prior to the exam.

TITLE: Government in Action

1/2 Credit

Prerequisites: Successful completion of Global History 9, 10; U.S. History.

Course Description This course is designed to introduce students to basic skills of public policy analysis. These include the ability to: define and identify the components of public policy issues; communicate ideas and findings with respect to public policy issues; use library facilities to collect information on public policy issues; use graphs, tables and statistics in the analysis of public policy; examine the use of surveys; identify a social problem and propose a public policy to deal with that problem; design a study to evaluate the impact of a proposed public policy; and analyze the political factions affecting the implementation of a public policy. Students will organize and participate in community service project(s) to supplement module assignments.

Students will conduct individual research to complete 7 research papers. Research will require the use of college libraries and databases. Students will make first hand contact with experts and policy decision makers. APA citation style will be taught and used when completing the research assignments. Students will be taught elements of public speaking.

A successful and enjoyable course depends upon students who are willing to read, write, debate, and think about the issues covered in class. Students will be evaluated based on periodic quizzes and exams, papers and class activities.

TITLE: Economics

1/2 Credit

Prerequisites: Successful completion of Global History 9, 10; U.S. History.

Course Description: Economics, a one-semester course, will emphasize economics and economic decision-making. This course will include the basic economic concepts and understandings which all persons will need to function effectively and intelligently as citizens and participants in the economy of the United States and the world. The course will emphasize a rational decision-making process, which can be applied to all economic decisions. Students will participate in a simulated stock market exercise, and experience personal money management. Students will also take a final exam at the end of this course.

TITLE: AP Macroeconomics

1/2 Credit

Prerequisites: Successful completion of Global History 9, 10; U.S. History. Seniors with a 90% overall average in US History and/or teacher recommendation. This 3-credit college level course will substitute for Economics. Note: Student must maintain an overall average of 85% throughout the year to remain in the course.

Course Description: This is an introduction to macroeconomics. Students will study the interactions of consumers and firms and their impact on production and product value. The influence of production factors and demand on economic decision-making and the allocation of resources will be investigated. Students will address questions of efficiency, market power, market failure, social welfare and other related topics. Along with other students will be using two resources in their studies. Jerry Evensky's *Economic Ideas and Issues: A Systematic Approach to Critical Thinking* and *Study Guide: Economic Ideas and Issues*.

Students will follow the prescribed curriculum outlined by the College Board in preparation for the AP exam, which will be administered in May. Students earning a 4 or 5 on this exam can expect to be given college credit when entering the college of their choice. This course will require research skills, higher level thinking skills, and college level writing skills.

Students will be expected to pay the exam fee prior to exam.

TITLE: SU Public Affairs (PAF 101)

1/2 Credit/ 3 college cr.

Prerequisites: Senior Standing - This college level course will substitute for Government in Action. Students must have achieved at least a 90% in US History.

Course Description: This college course is designed to introduce students to basic skills of public policy analysis. These include the ability to: define and identify the components of public policy issues; communicate ideas and findings with respect to public policy issues; use library facilities to collect information on public policy issues; use graphs, tables and statistics in the analysis of public policy; examine the use of surveys; identify a social problem and propose a public policy to deal with that problem; design a study to evaluate the impact of a proposed public policy; and analyze the political factions affecting the implementation of a public policy. Students will organize and participate in community service project(s) to supplement module assignments.

Students will conduct individual research to complete 5 research papers (modules), along with bi-weekly classroom assignments. Research will require the use of college libraries and databases. Students will make first hand contact with experts and policy decision makers. APA citation style will be taught and used when completing the research assignments.

Note: This is a course that requires a commitment to research, writing, reading and discussion at a college level. Upon successful completion the student will receive three undergraduate credit hours from Syracuse University.

Students will be expected to pay the enrollment fee prior to the start of the course.

TITLE: Investigating Local History

1/2 Credit

Prerequisite: 10th, 11th or 12th grade level.

Course Description: Ledyard, Genoa, Venice, Scipio; what events and people have influenced the history and the people of our communities? This project based course will allow students the opportunity to investigate the history of this region and Cayuga County from the time of the Cayuga Nation and the Sullivan Campaign to the present day. Students will learn the elements of historical research by locating and using primary and secondary sources to complete classroom activities, a rigorous individual research project and a cumulative class project. Students will interpret evidence to show how our communities were affected by government policies and historical events while also investigating how individuals from our local community contributed to our society and nation. Course content will be supplemented through class visits to area museums and historical offices. The cumulative class project will be distributed to area museums, libraries and local historian offices.

TITLE: Current Events

1/2 Credit

Prerequisite: Students should have an interest in history, government, and current events. The course requires a commitment to reading, writing, discussion and debate at an advanced level.

Course Description: During the semester, discussion of current events will be a daily, on-going and integral part of the course. Students will be reading The New York Times, The Wall Street Journal, and Newsweek on a daily basis. Students will be reading Newsweek on a daily basis and will be using the database Newsbank on a regular basis. Daily writing exercises, political interpretations, and debate are to be expected. Class topics will include our political foundations, campaign finance, negative campaigning, political philosophies, and the media's role in politics. Students are expected to participate in Cayuga County Student Government Day hosted by the Cayuga County Legislature or the annual Cayuga County William Seward Model Senate.

MATHEMATICS

TITLE: Integrated Algebra

1 Credit

Prerequisite: Completion of 8th grade math overall min. 65% average.

Course Description: Integrated Algebra is the first year mathematics course in high school. The focal point of this course is the algebra strand. This course will assist students in developing skills and processes to be applied using a variety of techniques to successfully solve problems in a variety of settings. Problem situations may result in all types of linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Coordinate geometry will be integrated into the investigation of these functions allowing students to make connections between their analytical and geometrical representations. Problem situations resulting in systems of equations will also be presented.

Measurement within a problem-solving context will include calculating rates using appropriate units and converting within measurement systems. Data analysis including measures of central tendency and visual representations of data will be studied. An understanding of correlation and causation will be developed and reasonable lines of best fit will be used to make predictions. Students will solve problem situations requiring right triangle trigonometry. Elementary probability theory will be used to determine the probability of events including independent, dependent and mutually exclusive events.

Students will be instructed in the appropriate use of a graphing calculator as it applies to each topic in the course and will use the graphing calculator extensively in class, on tests and on the Regents exam. Students will be evaluated with quizzes, chapter tests, and homework. This course ends with the Integrated Algebra Regents exam in June, a New York State graduation requirement.

TITLE: Geometry

1 Credit

Prerequisites: Successful completion of Integrated Algebra and a recommended 65% on Integrated Algebra Regents Exam.

Course Description: Geometry is the second course in mathematics for high school students. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships.

Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and glide reflections and coordinate geometry will be used to establish and verify geometric relationships.

A major emphasis of this course is to allow students to investigate geometric situations. Properties of triangles, quadrilaterals, and circles will receive particular attention. Students will use the traditional tools of compass and straightedge as well as technology that model these tools more efficiently and accurately, to assist in these investigations. Students may sit for a NYS Regents Examination at the end of this course.

TITLE: Algebra2/Trigonometry

1 Credit

Prerequisites: Int. Algebra, Geometry and minimum grade of 75% on Geometry Regents Exam.

Course Description: *Algebra 2 and Trigonometry* is the capstone course of the three units of credit required for a Regents diploma. This course is a continuation and extension of the two courses that preceded it. 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. For example, technology can provide to many students the means to address a problem situation to which they might not otherwise have access. Within this course, the number system will be extended to include imaginary and complex numbers. The families of functions to be studied will include polynomial, absolute value, radical, trigonometric, exponential, and logarithmic functions. Problem situations involving direct and indirect variation will be solved. Problems resulting in systems of equations will be solved graphically and algebraically. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms. Data analysis will be extended to include measures of dispersion and the analysis of regression that model functions studied throughout this course. Associated correlation coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Arithmetic and geometric sequences will be expressed in multiple forms, and arithmetic and geometric series will be evaluated. Binomial experiments will provide the basis for the study of probability theory and the normal probability distribution will be analyzed and used as an approximation for these binomial experiments. Right triangle trigonometry will be expanded to include the investigation of circular functions. Problem situations requiring the use of trigonometric equations and identities will also be investigated. This course ends with the Algebra2/Trig Regents exam in June, a New York State graduation requirement for Advanced Regents Diploma.

TITLE: Intermediate Algebra

1 Credit

Prerequisites: Junior or Senior status and minimum of 70% on the Integrated Algebra Exam.

Course Description: This college preparatory year-long course assumes knowledge of elementary algebra. Reviews basic algebraic concepts, then progresses to rational exponents; solution of linear, rational, quadratic and radical equations; introduction of the function concept; factoring polynomials, synthetic division, and the algebra of radicals. Includes applications with word problems. This course is in line with an introductory college algebra course.

TITLE: CCC Algebra/Trigonometry (MATH 104)

1/2 Credit/ 3 college cr.

Prerequisites: Successful completion of Math B and 70% on Math B Exam or Math 102.

Course Description: Continuation of MATH 102 introduces the basics of trigonometry and reviews basic properties of the complex number system. The concept of function is applied to algebraic, rational, exponential, logarithmic and trigonometric functions. Emphasis on applications of trigonometry to right and oblique triangles and vectors. The student will be expected to be able to devote a minimum of one half-hour of study each night to this course. Students will be evaluated on quizzes, tests and problem sets assigned outside of class. Students may not exempt the final exam in this course. A graphing calculator is required for this course. Upon successful completion of this course, students may earn three undergraduate credits from Cayuga Community College. **Students will be expected to pay the enrollment fee prior to the start of the course.**

TITLE: CCC Pre-Calculus (MATH 106)

1/2 Credit/ 3 college cr.

Prerequisite: Successful completion of College Algebra and Trigonometry/Math 104.

Course Description: This course completes the study of algebraic and trigonometric skills necessary for the successful study of calculus. Trigonometric functions and identities are applied to analytic geometry. Systems of equations and inequalities are solved using algebraic, graphical and matrix/determinant methods. Theory of equations, including remainder, factor and DeMoivre's theorem are used to study graphs. Series and sequences, both arithmetic and geometric, the binomial theorem and mathematical induction are introduced. Students will be evaluated on quizzes, tests and problem sets assigned outside of class. Students may not exempt the final exam in this course. A graphing calculator is required for this course.

Upon successful completion of this course, students may earn three undergraduate credits from Cayuga Community College. **Students will be expected to pay the enrollment fee prior to the start of the course.**

TITLE: AP Calculus and/or CCC Calculus I (MATH 108)

1

Credit/ 3 college cr.

Prerequisite: Successful completion of Pre-calculus/Math 106.

Course Description: Studies functions; properties of limits and continuity; derivatives with applications to related rates, maximum/minimum and curve sketching; the chain rule; differentials; the mean value theorem; Newton's Method; integration with applications to plane areas, volumes of solids of revolution by disk, shell, and cross sections. Differentiation and integration of exponential and logarithmic functions are applied to growth and decay. This is a rigorous course that offers an excellent opportunity to study college level mathematics. Upon successful completion of this course, students earn three undergraduate credits from Cayuga Community College.

Students will be expected to pay the enrollment fee prior to the start of the course.

SCIENCE

TITLE: Introduction to Environmental Science

1 Credit

Prerequisite: Completion of 8th grade science.

Course Description: This course covers some topics related to both Earth Science and Living Environment with particular emphasis put on current environmental issues and local issues. Students will investigate their world as well as improve the science process skills required for their future here and in the world beyond. The class will meet 5 times per week.

TITLE: Earth Science

1 Credit

Prerequisite: Successful completion of 8th grade science with a minimum average of 75%.

Course Description: This course will cover all the basics of astronomy, meteorology, geology and the environment. Students are encouraged to acquire new knowledge and apply that knowledge to understanding the world around them. Emphasis is put on learning skills that are translatable to the world beyond SCCS. As with any Regents Science, a minimum of 1200 minutes of acceptable laboratory work must be accomplished before a student can take the Earth Science Regents exam. Students who fail the course, either due to failing to meet the laboratory requirements or failing the Regents, will be expected to repeat the Earth Science Course the following year. The class will meet 5 times a week, plus 1 lab session a week.

TITLE: Living Environment

1 Credit

Prerequisites: Successful completion of 8th grade science with a minimum average of 85% and/or successful completion of Earth Science.

Course Description: The course in Regents biology deals primarily with the structure and function of living organisms with special emphasis on 6 extended areas. These are - biochemistry, human physiology, reproduction, genetics, evolution, and ecology. These topics are presented during 6 periods a week - 5 classes and 1 lab. As with any Regents science, a minimum of 1200 minutes of acceptable lab work must be accomplished before a student can take the Regents exam. Generally, the course grades in biology are calculated from frequent quizzes (1-2 a week), 1 major exam each 6 weeks, and marks achieved on lab reports.

TITLE: Chemistry

1 Credit

Prerequisites: Students enrolling in the Regents chemistry must have a strong math and science background and have passed at least one math and one science Regents. Student should be familiar with the use of standard notation of numbers, significant figures, metric system, heat units, dimensional analysis (including units in mathematical computations), and an understanding of direct and inverse relationships. Algebra is used extensively in the calculations and students need to be familiar with various methods of solving algebraic equations and relationships. Reading and writing skills should be above average since scientific terminology and extensive detailed descriptions are required for laboratory reports.

Course Description: The Regents chemistry course is a qualitative as well as quantitative approach to physical and chemical principles of matter. The laws governing chemical reactions, chemical equilibria and gas behavior are always interpreted in mathematical terms. The main topics covered are: matter and energy; atomic structure; chemical bonding; the Periodic Table; kinetics and equilibrium; acid-base theories; redox and electrochemistry; and organic chemistry. A minimum of 1200 minutes (30 passing lab reports) are required by New York State to meet the admission requirement for the Regents examination. Laboratory requirement - the minimum laboratory requirement can be met by performing individual exercises requiring 30 laboratory periods. A chemistry laboratory exercise is defined here as the laboratory work done by a student during 1 school period. In addition, a satisfactory written report of this work is required.

TITLE: Advanced Chemistry/CCC Chemistry (CHEM 103)

1 Credit/ 4 college cr.

Prerequisites: Students enrolling in CCC Chemistry must have completed both Earth Science and/or Living Environment with 85% or higher results on the Regents examinations. Students must have a strong background in math and must possess above average skills in algebra. Both Algebra and Geometry Regents exams should have been passed. Reading and writing skills need to be well above average since there is extensive use of scientific terminology and highly accurate and detailed descriptions are required for laboratory reports. This course includes an extensive laboratory portion requiring above average laboratory skills and knowledge of scientific procedures and is writing intensive.

Course Description: New York State requires that a minimum of 1200 minutes (30 passing lab reports) be completed for admission to the Chemistry Regents exam. Cayuga CC requires additional satisfactorily completed lab exercises for students to obtain college credit. Advanced Chemistry will emphasize more detailed topics in Chemistry and greater laboratory skills by closely following the course outline and lab requirements for Cayuga Community College. The topics covered will be the same as those for Regents Chemistry but more in depth and aligned with the sequence of the course offering (Chemistry 103) at CCC. Upon successful completion of the laboratory requirements in the course, students will be eligible to take the New York State Chemistry Regents. Students earning a passing grade will obtain 4 undergraduate college credits from Cayuga Community College. **Students will be expected to pay the enrollment fee prior to the start of the course.**

Class size may be limited to the 12 available laboratory spaces. If necessary, past performance in other science and math courses will be used to reduce numbers.

Students will be evaluated by

- 1) quizzes and exams.
- 2) preparedness and participation in laboratory exercises.
- 3) the quality and accuracy of the laboratory reports.
- 4) a comprehensive final exam or the Chemistry Regents.

TITLE: Advanced Biology/CCC Biology (BIOL 103)

1 Credit/ 4 college cr.

Prerequisites: Students enrolling in CCC Biology must have completed both Earth Science and/or CCC Chemistry with above average performances on both Regents examinations. Reading and writing skills need to be well above average since there is extensive use of scientific terminology and highly accurate and detailed descriptions are required for laboratory reports. This course includes an extensive laboratory portion requiring above average laboratory skills and knowledge of scientific procedures.

Course Description: New York State requires that a minimum of 1200 minutes (30 passing lab reports) be completed for admission to the Living Environment (LE) Regents exam. Cayuga Community College requires additional satisfactorily completed lab exercises for students to obtain college credit. Advanced Biology will emphasize more detailed topics in Living Environment and greater laboratory skills by closely following the course outline and lab requirements for Cayuga Community College. The topics covered will be the same as those for Regents LE but more in depth and aligned with the sequence of the course offering (BIOL 104) at CCC. Upon successful completion of the laboratory requirements in the course, students will be eligible to take the New York State LE Regents. Students earning a passing grade will obtain 4 undergraduate college credits from Cayuga Community College. **Students will be expected to pay the enrollment fee prior to the start of the course.**

TITLE: Applied Physics/POE II

1 Credit

Prerequisites: Students must have passed two science and two math classes to enroll. Reading and writing skills should be above average. Recommended that student is in 11th or 12th grade.

Course Description: The course in Applied Physics deals mainly with the study of the relationship between matter and energy and the day to day applications of physics to life. The course is broken into 5 core areas: 1) Mechanics; 2) Energy; 3) Wave Phenomena; 4) Electricity and Magnetism; 5) Modern Nuclear Physics. Several optional areas will also be studied, chosen from: 1) Motion in a plane; 2) Internal Energy; 3) Electromagnetic applications; 4) Geometric Optics; 5) Solid State Physics; 6) Nuclear Energy. **Students interested in taking Regents Physics will be offered a lab period in conjunction with this course.**

TITLE: TC3 Astronomy (AST 101)

1 Credit/ 3 college cr.

Prerequisites: Above average high school skills in reading, writing, and mathematics are required. There is extensive use of various types of mathematics including algebra, geometry, and trigonometry in astronomy. A clear understanding of mathematical relationships including direct, indirect, exponential, and inverse square will prove to be very helpful to prospective students. Knowledge concerning the use of scientific calculators and electronic graphing will be necessary to complete certain aspects of the course. Clear expression of ideas, scientific laws, and theories will also be required for the written aspects of the class. Some basic knowledge of Earth science and physical science is necessary. Students must have passed the Earth Science Regents exam and at least one math Regents exam in order to enroll.

Course Objectives:

- The main objective is to present explanations why the objects in the sky behave and appear as they do.
- Secondary objectives include increased awareness of biological, chemical, geological, and physical principles and how they pertain to planet Earth and the Universe as a whole.

Course Content:

- History of Astronomy-ancient observations, measurements, and theories. Vocabulary, definitions, and terms-astronomy vs. astrology, celestial sphere, circumpolar, ecliptic, heliocentric, parallax, sidereal, zenith, etc.
- Astrogeology-Big Bang theory, accretion discs, formation of stars and planets, physical characteristics of planets, comets, and stars, asteroids, etc.
- Astrochemistry-fundamental elements of the universe, fundamental reactions of the stars and formation of higher mass elements, H-R diagrams, degenerate matter.
- Astrophysics-gravity, Kepler's laws, Newton's laws, telescopes, mirrors, and lenses, dual nature of light, Doppler effect, emission/absorption spectra, rotational inertia, satellites, centripetal acceleration, velocity, Wein's law.
- Astrobiology-planet evolution, terrestrial and gas giants, atmospheres, elements/compounds/conditions necessary for life, remote sensing, Drake equation.
- Cosmology-types of galaxies, galaxy clusters, quasars, black holes, space/time, relativity, Hubble constant, cosmological constant, Big Crunch.

Note: This course is offered in conjunction with Tompkins Cortland Community College and students will receive up to 3 college credits for successful completion of the course.

TITLE: Human Anatomy

1/2 Credit

Prerequisite: Successful completion of Regents Earth Science

Course Description: This course will involve a detailed study of the structure of the major human systems (digestive, circulatory, respiratory, excretory, nervous, endocrine, reproductive, skeletal and muscular). Students will learn how the various organs and organ-systems are constructed and integrated into working units. Diseases and malfunctions of each system will also be carefully analyzed.

This course is designed for those students who may be interested in: (1) entering a health-related field (nursing, physical therapy, doctor, etc.), (2) majoring in physical education or college science, or (3) just finding out more information concerning the body's structure and function. Class work will center on discussion sessions, pertinent videotapes, local guest speakers and teacher presentations. Lab work will entail dissections, experiments relating function to structure, model building and analysis, and diagram construction and interpretation. This course will not duplicate any topics covered in "CCC Biology" and should not be considered a substitute for it. A student may take both courses if he/she so desires.

FOREIGN LANGUAGE (LOTE)

TITLE: French II

1 Credit

Prerequisite: 75% or better in French I is highly recommended.

Course Description: French II is a continuation of French I by means of TPRS (Teaching Proficiency through Reading and Storytelling) with a healthy dose of computer usage thrown in. We will be listening and actively participating through speaking, reading and writing French in order to bolster comprehension. An increase in comprehension leads to fluency. The class will be taught predominantly in French.

TITLE: French III

1 Credit

Prerequisite: 75% or better in French II is highly recommended.

Course Description: This is a continuation of French II. French will be the language of choice in the classroom, using the TPRS method. Language and grammar will be acquired through the use of comprehensible reading and storytelling. Computer usage is frequent.

TITLE: French IV/CCC Elementary French (FREN 101 & 102)

1 Credit/ 8 college cr.

Prerequisite: Successful completion of French III, 80% or better is highly recommended.

Course Description: A College credit course through Cayuga Community College in Elementary French, incorporating reading, writing, speaking and listening to modern French. Technology is used extensively as students listen, repeat and compare themselves to native speakers.

The college credits are accepted at all SUNY schools and NYS community colleges. This course involves payment for the four credits but at a substantially reduced rate than that which on-campus student pay.

Students will be expected to pay the enrollment fee prior to the start of the course.

TITLE: French V/CCC Intermediate French (FREN 103 & 104)

1 Credit/ 6 college cr.

Prerequisite: CCC French 101 & 102; a grade of 80% or better is highly recommended.

Course Description: A College Credit course through Cayuga Community College in Advanced Elementary French (4 credits), which allows students to continue their acquisition of the language and to prepare them for continuing into intermediate university courses. These skills are reinforced by applying them to new contexts, but the focus of the course is the systematic development of more advanced-level skills. Technology is used extensively as students listen, repeat and compare themselves to native speakers. The college credits are accepted at all SUNY schools and NYS community colleges. This course involves payment for the four credits but at a substantially reduced rate than that which on-campus student pay.

Students will be expected to pay the enrollment fee prior to the start of the course.

TITLE: Spanish I

1 Credit

Prerequisite: None.

Course Description: This course is a foundational course for those students in HS who haven't passed the NYS proficiency exam, or those who would like to learn a new language. The approach will involve reading, storytelling, acting and active use of the language. Students will earn one high school credit upon passing the New York State Proficiency Exam.

TITLE: Spanish II

1 Credit

Prerequisite: 75% or better in Spanish I is highly recommended.

Course Description: Spanish II continues the language-acquisition process started in first year classes. The student will continue to speak, hear, listen to and write Spanish throughout the year. Also, students will read both novels and children's books in Spanish. Grammar is integrated as needed. Culture is frequently part of the learning process; computers are used frequently for additional insight. Together with Spanish III, this course meets the NYS standards for Regents.

TITLE: Spanish III

1 Credit

Prerequisite: 75% or better in Spanish II is highly recommended.

Course Description: Spanish III deepens the process already started. Structures become more complex and expectations rise. At the end of the year students take the NYS Regents Exam in Spanish.

TITLE: Spanish IV/CCC Spanish (SPAN 101 & 102)

1 Credit/ 8 college cr.

Prerequisite: Successful completion of Spanish III.

Course Description: Spanish 101/102 is a college credit course through Cayuga County Community College that is proficiency-based and reviews understanding of the formal structures of language, refines previously acquired linguistic skills, and builds awareness of Spanish culture.

The college credits are accepted at all SUNY schools and NYS community colleges. This course involves payment for the four credits but at a substantially reduced rate than that which on-campus student pay.

Students will be expected to pay the enrollment fee prior to the start of the course.

TITLE: Spanish V

1 Credit

Prerequisite: Successful completion of Passing Spanish IV.

Course Description: Understanding the cultures of the past several centuries through the writings of both modern and established authors. (Cervantes, Garcia Marquez, Borges, Cortazar and other less-known authors). Some video presentations will help to round out understandings. Grammar is integrated as needed. The highlight of the year is the exploration and reading of book 1 of Don Quijote.

ART

TITLE: Studio in Art

1 Credit

Prerequisite: None

Course Description: Studio in Art is a comprehensive course; a prerequisite for all other high school elective art courses. The course includes the nature of art - a brief study and consideration of the aesthetic principles that involve the visual arts, the elements of art - a study and reasoning approach to the elements which comprise a work of art, and movements and trends in the world of art - a brief description of art of the past and present intended to illustrate the use of the elements and principles of art at various times in various places of the world. Exploration of 2-dimensional and 3-dimensional artwork in various media through individual student projects and studio work allows the student an opportunity to become familiar with the various forms of art. Individual projects and art research are important factors in the total study of Studio in Art.
Studio in Art is a full year course, which meets the art/music requirement for graduation.

TITLE: Studio in Art II

1 Credit

Prerequisite: Successful completion of Studio in Art.

Course Description: Students in Studio in Art II will continue to develop creative abilities and visual communication skills through the exploration of a variety of two-dimensional and three-dimensional media based on instructional assignments and individual initiative. Students are encouraged to think critically about their work as they begin to define personal artistic style.

TITLE: Sculpture

1 Credit

Prerequisite: Successful completion of Studio in Art or DDP.

Course Description: Sculpture is an advanced high school art elective. The course involves the nature of sculpture - a brief study of the aesthetic visual expression of 3-dimensional form in space, the fundamentals of art in 3-dimensional design, and also style and technique. It offers an opportunity for students to explore the basic processes of sculpture (carving, modeling, casting, and construction) in a variety of media. Exploration of 3-dimensional sculptures in various materials (ceramic clay, plasticine, wax, wood, plaster, metals, paper, and cardboard, etc.) allows an opportunity for the student to become familiar with various materials as they may be used in the different sculptural processes. Individual projects and art research are important factors in the total study of Sculpture necessary.

TITLE: Drawing and Painting

1 Credit

Prerequisite: Successful completion of Studio in Art.

Course Description: Drawing and Painting is an advanced high school art elective. The course involves a foundation of exploratory experiences in drawing and in painting. Following exploration of all media, students are allowed to select a particular medium on which they would like to concentrate. The remainder of the class time is devoted to building a strong background in the area of concentration. This opportunity to select a particular medium allows for freedom of individual study. Individual projects and art research in the particular area of interest are important factors in the total study of Drawing and Painting. Portfolio notebook necessary.

TITLE: Photography

1/2 Credit

Prerequisite: Successful completion of Studio in Art or DDP.

Course Description: Photography is an advanced high school art elective. The course involves historical aspects of photography, the technical understanding of photography (the photographer, paper, film, exposure, developing, printing, etc.), the use of cameras, enlargers, light meters, etc., and the study and consideration of the aesthetic principles that involve the visual art of the photograph to give a basic understanding of photography. Students will be involved with the total procedure of creating a finished photograph. Various photography projects and research work will be included within the course with an opportunity for students to work independently with work of their choice. Enrollment is limited due to availability of cameras and darkroom space.

TITLE: Graphic Arts

1/2 Credit

Prerequisite: Successful completion of Studio in Art or DDP.

Course Description: Students will experiment with various graphic arts and print making processes, such as relief printing, monotype printing, and silk screen printing as a way to explore the principals of design (comprising ideas such as symmetry, balance, and pattern). Along with traditional printmaking, students will spend time working with various digital media such as digital photography and digital image manipulation, and using it to further explore design ideas.

MUSIC

TITLE: Band

1/2 Credit

Prerequisite: Previous band experience and/or an audition.

Course Description: High School band is offered to students in grades 9-12. This ensemble meets 2 1/2 times weekly, and each student is required to take a weekly lesson. This organization performs at least two evening concerts yearly as well as assemblies and a festival performance or trip. Music of a wide variety of styles is used. Students learn to be proficient as individuals and as a part of a large group. The band experience is geared to create better performers and develop better consumers of music.

TITLE: Chorus

1/2 Credit

Prerequisite: Any student who enjoys singing, wants to become a better singer, or desires to learn more about music is invited to join the SCCS chorus.

Course Description: The full chorus meets 2 1/2 days per week. Performance of various kinds of choral music from rock to classical music is the basic activity. As music is learned, we consider its style and structure, also the musical problems of pitch, rhythm, and phrasing. Each singer is encouraged to learn more about voice production, tone quality, breathing, diction, and singing with expression. Emphasis is on growth, both in awareness and in actual performance skills. The music studied and the skills learned culminate in two or three concerts per year.

Chorus members also have the option of participating in the spring musical production. Chorus members can also audition for activities such as All-County chorus, Area All-State Chorus, and can choose to participate in solo and ensemble festival. Field trips to view professional music productions may occur.

TITLE: Piano Keyboarding/Music Theory

1/2 Credit

Prerequisite: None

Course Description: This course is for individuals with interest in playing piano and learning music theory (writing music). You will learn the basics of how to play piano using the electronic MIDI lab and be introduced to how music is composed. The class will meet every other day.

TITLE: Jazz Band

1/2 Credit

Prerequisite: Previous band experience and/or an audition.

Course Description: Jazz band is offered to students in grades 9-12. This ensemble meets 2 1/2 times weekly. This organization performs at least two evening concerts yearly as well as assemblies and a festival performance or trip. Music of a wide variety of styles is used. Students learn to be proficient as individuals and as a part of a large group. The jazz band experience is geared to create well-rounded musical intelligence.

CTE (AGRICULTURE)

TITLE: Agricultural Production

1 Credit

Prerequisite: None

Course Description: In this course students will learn the basic principles of agricultural business. Students will have the Opportunity to gain valuable career planning skills through job shadowing experiences, resume writing and interviews. Students will learn about forms of business organizations, agriculture marketing, sales, and interviews. Students will learn about forms of business organizations, agriculture marketing, sales, consolidated and diversified agricultural business opportunities. Students will also be exposed to the financial management and decision-making process of owning and operating an agriculture business.

Objectives/Opportunities: Plan FFA fundraiser sales, Motivate younger students, Use computers to advertise and market, Job interviewing and presentation skills, Internship with a local business, Agriculture Program web page maintenance

Program Extensions: Network with the local agricultural industry, Participate in the State FFA Agricultural Sales Contest, Dual Credit option with SUNY Morrisville AGBS 110*

TITLE: Exploring Agriculture

1/2 Credit

Prerequisite: None

Course Description: Get started on a journey into the wide variety of agriculture! We will study agricultural careers and job opportunities including the diversities in agriculture. Main focuses will include agricultural foods, animals and plants, mechanics, business, as well as conservation and wildlife management. Students will learn about the industry and gain an understanding of the importance of agriculture in their lives. Students will have the opportunity to explore any career of interest, and begin keeping detailed records of work experience, skills, and hours of time invested.

Objectives/Opportunities: Current agricultural issues discussed, Career opportunities are explored, Importance for local and global agriculture, Take skills learned in this course and apply them to future goals

Program Extensions: Agricultural Safety Program planning and participation, Agricultural Education Fair for the Elementary Students

TITLE: Advanced Agricultural Mechanics

1 Credit

Prerequisite: Successful completion of Ag Production or Exploring Ag.

Course Description: In this course students have a chance to further their understanding of the Agricultural Mechanics Industry. Students will have the opportunity to learn skills, gain local certification, explore career paths and higher learning opportunities, and enjoy shop work. Students will learn about electricity, plumbing, pneumatics, masonry, structures and building layout, and equipment repair/fabrication, while keeping safety at the forefront. Students will also be exposed to job shadowing and employability profiling.

Objectives/Opportunities: Exploration of employment opportunities in Agricultural Mechanics, Prepare for Agricultural Mechanics Contest at State Convention

Program Extension: Equipment repair and construction in shop, Mechanical Skills Certificate – Employability Profile

TITLE: Plant Science

1 Credit/ 3 college cr.

Prerequisite: None

Course Description: This course will focus on the greenhouse production and sales. Students will have the opportunity to grow plants for various occasions, and work with the students from other classes. Students will learn about anatomy and physiology of plants as well as the factors that affect plant growth. This course is recommended for students interested in working with plants, both as ornamental and food enterprises.

Objectives/Opportunities: Plan and grow the greenhouse plants, Study of agronomy, Operate Kids Growing Food Garden, Poinsettias are grown and sold in December

Program Extensions: Dual credit option for those who apply and pay fee to Morrisville College (HORT 100), NYS competitions in Horticulture and Vegetables, or Agronomy

TITLE: Pre-Vet Science

1 Credit

Prerequisite: Minimum of 65% in Living Environment.

Course Description: In this course students learn about anatomy and physiology, clinical exams, laboratory procedures, parasite identification methods, veterinary terms and math, and many other aspects of the veterinary hospital. Students participate in hand-on laboratory activities, including dissections, which incorporate advanced science and math skills into the exciting field of veterinary science.

Objectives/Opportunities: Manage the small animal laboratory, Gain valuable animal experience, Opportunities to work along side veterinary professionals

Program Extensions: Participate in State small animal, dairy science, and equine competitions

TITLE: Small Engine Troubleshooting and Repair

1/2 credit

Prerequisite: None

Course Description: In this course students will learn detailed systems of operation in a small gas engine. Students will have the opportunity to work in groups disassembling and reassembling engines, looking for wear, breakage, and other unfavorable characteristics that are necessary for troubleshooting engine failure. Students will learn history of the engine, major steps in internal combustion engine technology, small engine applications, safety, tools, and improvements to engines. Students will also be exposed to multi-cylinder inline and v-configuration engines, multi-fuel engines, Diesel, Bio-diesel, and gas/electric applications.

Objectives/Opportunities: Understand systems of the small gas engine, Manipulate factors of operation to control power, Disassemble and reassemble an engine in a group, Make observations and field notes from engine work

Program Extensions: Small Engine Troubleshooting Competition at NYS Fair, repair of engines brought into the shop, with teacher's approval and contract signed between engine owner, teacher, student, and student's parent.

TITLE: Metalworking and Fabrication

1/2 credit

Prerequisite: None

Course Description: Students learn basic principals and safety used in arc welding, oxy-acetylene torch use plasma cutting, MIG welding, TIG welding, metal working skills and fabrication. Students will have the opportunity to participate in the repair and fabrication of projects. Students will learn metal identification, welding, cutting, fabrication, design, and safety in the workplace. Students will also be exposed to Aluminum and out of position welding.

Objectives/Opportunities: Become exposed to metallurgy, Practice and refine personal skills, Work on various projects, Build projects needed in the Agriculture Wing

Program Extensions: NYS FFA Welding Competition at Empire Farm Days

CTE (BUSINESS)

TITLE: Keyboarding/Communications

1/2 Credit

Prerequisite: None

Course Description: Keyboarding/Communications is designed to develop the necessary skills of alphabetic and numeric keyboarding using Micro Type Pro keyboarding program. The students will learn word processing applications such as: the proper formatting and composition of business letters, reports, memorandums, and tabulations. An emphasis is also placed on communication skills so that the students will be able to learn to express themselves through grammar and writing exercises. The students use computers with Microsoft Windows and Microsoft Word 2007. Upon completions of Keyboarding/Communications, the students will be able to key at a minimum of 25 words per minute.

TITLE: Career and Financial Management

1/2 Credit

Prerequisite: None

Course Description: This course emphasizes the business and economic system including its characteristics, operations, structure, and evolving role within society. Students should realize the significance of their part in the economic system. Important management and economic concepts are defined in relation to business transactions and to the individual as an entrepreneur, employee, consumer, and citizen.

TITLE: Career and Financial Management – Business

1/2 Credit

Prerequisite: Successful completion of CFM.

Course Description: This course emphasizes the relationship between career planning and lifelong goals. Students should recognize the skills needed for success in a chosen career cluster and know how to assess personal abilities and work performance to achieve individual career goals. Key factors include understanding the changing nature of the workplace and the relationship of lifelong learning leading to career success. The students will be required to complete a job shadow.

TITLE: Math & Financial Applications/Business Math

1 Credit

Prerequisite: This course is for students who have successfully passed the required Math A Regents or Integrated Algebra examination.

Course Description: Math & Financial Applications is a 1-unit specialized interdisciplinary business course related to the mathematics learning standards. This course is designed to prepare students for both college level business programs and to understand the complex financial world they will encounter during their lives. This is a specialized course may be used to fulfill one of the three units of mathematics required for the Regents diploma. This course may also be offered as CCC Business 105.

TITLE: Marketing in Sports Entertainment

1 Credit

Prerequisite: Junior or Senior standing.

Course Description: Sports and Entertainment is a 1-unit business course. This course is designed to introduce the field of Sports and Entertainment marketing to a business student in the same nature that Accounting I does for the field of accounting. The course will help prepare students for college level business programs and introduce them to an area of business with which they may be unfamiliar.

TITLE: Business of Music

1/2 Credit

Prerequisite: Junior or Senior standing.

Course Description: This half-year course is designed for both musicians and non-musicians with a desire to pursue a career in one of the many facets of the music industry including: Talent/Management Promotion, Music/Video Production and Engineering, Music Law/Contracts, Copyrights, and Music Publishing. Students will also learn about current trends in the music industry with the main focus remaining on the business and marketing aspect of the music industry.

TITLE: Retailing

1/2 Credit

Prerequisite: Junior or Senior Standing.

Course Description: Fundamentals of retail industry are covered, including merchandising, location and design, careers, as well as legal and ethical issues in retailing. A variety of Internet projects and simulations are used to provide connections relevant to the business of the retailing industry.

TITLE: Business & Personal Law

1 Credit

Prerequisite: Junior or Senior Standing.

Course Description: This course helps students understand their legal obligations and rights in the business world. It also helps one to avoid and resolve legal difficulties in their personal life. Personal law topics covered that are particularly relevant to students include buying and insuring a car, renting an apartment, buying a home, marriage, divorce, and the use of personal credit. Some of the most common crimes and torts are discussed, including traffic violations, drunk driving, search and seizure laws, vandalism, and shoplifting.

Computers for note taking is an option given to all students. The Internet is frequently used for research of court cases and to provide students with information on criminal and civil crimes.

CTE (TECHNOLOGY)

Technology Education is a physical and conceptual program. All courses strive to achieve 75% hands-on, 25% theory applications. Why talk about it when we can do it!

TITLE: Production Systems

1/2 Credit

Prerequisite: Recommended at the 9th or 10th grade level.

Course Description: Production Systems primary focus is on Manufacturing. The students will work in cooperative-learning groups to mass-produce products for either “Toys-for-Tots” and/or “School and Community Enhancement” programs. Students will typically have time to complete small personal projects. (This course is offered preceding or following Career and Financial Management)

Manufacturing topics include:

- 1) Introduction to Manufacturing: What is Manufacturing?, The development of manufacturing, How is manufacturing accomplished?, Workers and safety
- 2) Research and Development: Ideas are powerful, Selection products and resources, Designing and engineering
- 3) Production: Starting and organizing a Manufacturing company, Planning and preparing a production system, Producing Products, Marketing

Required for the CCC articulation credit

TITLE: Energy Applications

1 Credit

Prerequisites: Two (2) years of high school science, recommended at the 11th or 12th grade level.

Course Description: Energy has become a defining issue of the 21st century. This course will explore the physics and economics of energy production (renewable and nonrenewable sources) and examine affect generated by waste. It will also look at the inner workings of transportation and navigation throughout history. This is a project-oriented class using both physical and conceptual modeling. This class satisfies a 3rd year or higher level of science credit for local and regents diplomas. Course offered by CTE.

TITLE: Drawing and Design For Production (DDP)

1 Credit

Prerequisite: Recommended at the 9th or 10th grade level.

Course Description: DDP is an elective course that any student may take, but is geared towards those enrolled in a Technology sequence. This course provides:

Technology sequence credit, Art/ music graduation requirement, Prerequisite skills and knowledge for advanced Technology and Art classes, Visual problem solving, using common graphic language, Critical Thinking skills and interpersonal communication.

Five Major Technical Areas covered:

- 1) Computer Aided Drawing: Isometric Perspectives and sketching, Orthographic Projections with dimensioning, Solid Modeling
- 2) Problems Solving: Formal Method of Problem Solving, Documentation and Portfolio Presentation
- 3) Principles and Elements of Design
- 4) Modeling and Prototyping
- 5) Materials Selection, Processing and Production

TITLE: Creativity and Innovation

1/2 Credit

Prerequisite: Recommended at the 10th or 11th grade level (Spring session course following Materials Processing-- Required for the CCC articulation credit).

Course Description: Students will be given an opportunity to examine their critical thinking and problem-solving capabilities. You will have a chance to design and create projects of your own using various mediums.

Advanced training in the following areas:

- 1) Design and Development
- 2) Basic tools and materials: Hand Tools, Fine and Standard wood and metal stock, Fine hard woods and wood working, Sanding and finishing
- 3) Power Equipment: Lathe, Power Saws, Drill Press, Planer and Jointer

TITLE: Materials Processing

1/2 Credit

Prerequisite: Recommended at the 10th or 11th grade level (Fall session course preceding Creativity and Innovation-- Required for the CCC articulation credit).

Course Description: The focus of the Materials Processing course is to gain an understanding of the characteristics and applications of the materials used in society. You will work both cooperatively and independently to solve problems and do projects in the following areas:

- 1) Materials Research Report: Polymers, Metals, Forest Products, Ceramics, Composites
- 2) Materials Characteristics and Identification
- 3) Material Processes: Forming, Separating, Combining, Conditioning
- 4) Materials Testing: Conductivity, Insulation, Tensile, Ductility, Compression, Malleability
- 5) Tools and Materials: Metal sheet and Bar stock, Ceramic Slip and Glazing, Wood sheet, board and rod stock, Polymer sheet material
- 6) Power Equipment: Lathe, Power Saws, Drill Press, Planer and Jointer, Vacuum and Injection Former
- 7) Processes: Foundry and forge, Metal spinning and turning, Wood and metal fabrication, Slip casting, Thermoforming Polymers
- 8) Future Trends and Developments: Job and career opportunities, training programs & Qualifications

TITLE: Computer Aided Drafting/Manufacturing (CAD/CAM)

1 Credit

Prerequisite: DDP and recommended at the 10th or 11th grade level.

Course Description: Introduction to the various input, output and data storage and processing units that comprise the typical Computer Drafting workstation and production system. Develops an understanding and appreciation of the types, uses and advantages of CAD and the impacts computer design has had on industry and available career fields. Use of industry standard techniques and programs allow for success throughout this program and post-secondary situations. Evolution and application of CAD/CAM (manufacturing) will also be addressed.

TITLE: Principles of Engineering (POE)

1 Credit

Prerequisite: Students enrolling in the POE must have completed at least Int. Algebra, Earth Science and are enrolled in Geometry. This implies that the student is knowledgeable in the areas of Logic, Probability and statistics, as well as Euclidian and Analytical Geometry. Furthermore the student must have a grasp and interest in the natural and artificial environment and the impacts humans have had on our world.

Course Description: POE is a hands-on laboratory based course designed for 11th and 12th grade students with a strong math and science background. You will utilize the design and problem-solving processes as the basis when confronting real life issues in mechanics, structures, control devices and ergonomics. The class will focus on the development and testing of devices that demonstrate the connection between technology and society. This class satisfies a 3rd year or higher level of math credit.

PHYSICAL EDUCATION & HEALTH

Our PE participation policy grades 9-12: Student is expected to dress in clothing appropriate for the activity, should the student not have access to appropriate clothing it may be provided by the school in order for the student to participate on any given day. Students will be afforded an opportunity to make up all missed classes. Students who fail to participate in class and do not choose to make up classes risk failing the course, removal from the course and loss of credit for P.E.

TITLE: Physical Education - 9th, 10th, 11th, and 12th grades:

1/2 Credit

It is the goal of the physical Education department to involve students in a variety of activities throughout their high school career. Areas of emphasis will be fitness and wellness, motor skill, cognitive ability, game knowledge and strategies, safety, participation, attitudes and values. Fitness tests will be administered two times a year. **Two credits (4 years) of PE with a passing grade is necessary for graduation credit.**

Physical Education – 9th and 10th Grades

In PE 9-10 a broad range of activities will be offered including but not limited to:

Soccer, Volleyball, Football, Field Hockey, Swimming, Basketball, Team Handball, Tennis, Project Adventure, Track, Softball, Broomball, Resistance Training, Floor Hockey, Lacrosse, Wrestling

Physical Education 11th Grade

In PE 11 the focus will shift to more of a lifetime fitness objective. The broad range of activities for 11th graders will be offered including but not limited to:

Resistance Training, Circuit training, Swimming, Tennis, Softball, Volleyball, Basketball, Golf

Physical Education 12th Grade

In PE 12 the focus will stay as it was in 11th grade. The students will be given the opportunity to elect what choice they would like in 12 week blocks.

TITLE: Lifeguarding

1/4 Credit

Red Cross Certification Course in Lifeguard Training—upon successful completion of this semester course students will be certified as Lifeguards in pools and waterfronts, First Aid, CPR and AED. Course cost - \$75.00

TITLE: Health and Wellness

1/2 Credit

Prerequisite: Recommended at the 10th, 11th or 12th grade level.

Course Description: Health and Wellness is a mandated course designed to increase students' awareness of relevant health problems, their prevention, and their impact on one's lifestyle and quality of life. This course provides students with the understandings and skills necessary to: set realistic goals, make informed decisions, and communicate assertively and how to manage stress. Topics include: foundations of health education, mental illnesses, stress, personality types, relationships, sexuality, awareness of available community resources, nutrition/obesity, fitness, life stages, diseases and their prevention, parenting skills, disability awareness, personal safety, illegal drug use/abuse and the use/abuse of alcohol and tobacco. Students will be evaluated through quizzes, tests, homework, journal writings, current event articles and a mini-research project and presentation.

TITLE: Current Events in Health, Medicine and Psychology

1/2 Credit

Prerequisite: Students should have an intense interest in current health issues, issues related to the medical field and issues related to the field of psychology. The course requires a commitment to reading, writing, researching and discussion on a mature level.

Course Description: Current Events in Health, Medicine and Psychology is an elective course designed for those students who have a desire and interest in current happenings in health, medicine and psychology. Class topics will include adolescent sexuality and relationships, communicable and non-communicable diseases, emotional health issues, consumer health issues, environmental health issues, addictions, the newest medical advances in technology, surgery and screening, obesity, fitness, community health issues, dying, death and legal matters relating to health care, family life education, violence, bullying and harassment, disabilities and medical, health and psychological careers. Students will be required to keep a journal.

ADDITIONAL COURSE OFFERINGS

TITLE: High School Success/Mentorship I

1 Credit

COURSE DESCRIPTION: This is a mandatory pass/fail course for all 9th grade students. The purpose of the course is to assist students with the demands of high school and aid with the middle school/high school transition. Teachers will focus on different content area skills throughout the year. Students will be grouped and assigned a mentor-teacher for the year. There is a possibility that students may change their teacher depending upon the needs of the student. Students will also rotate into the business dept. for a minimum of 6 weeks to learn keyboarding and computer application skills.

Topics addressed in the course are:

- Organization, goals, keyboarding/computer applications, school projects, research papers, graduation requirements, social issues, careers, test taking skills, regents prep, study skills, character ed, etc...

TITLE: High School Success/Mentorship II

1 Credit

COURSE DESCRIPTION: This is a mandatory pass/fail course for all 10th grade students. The purpose of the course is to assist students with the demands of high school and aid with his/her rigorous schedule. Teachers will focus on different content area skills throughout the year. Students will be grouped and assigned a different mentor-teacher each marking period. Students will rotate through 6 distinct areas of study, they include: Leadership/Team building, Science Olympiad, Personal Finance, Art, Regents prep, and Careers.

TITLE: Graduation Mentorship/Advisement

N/C

COURSE DESCRIPTION: This is a structured study session opposite PE for students in grades 11 & 12. Students will be assigned a mentor-teacher for grades 11 & 12.

TITLE: Driver Education

N/C

PREREQUISITES:

16 years of age on/before September 15 for fall semester course

16 years of age on/before February 2 for spring semester course

16 years of age by July 1 for summer course

New York State Learners Permit before start of course. Register in the Guidance Office. **There is a fee for this course.**

Payment is due within 2-weeks after the class begins.

COURSE DESCRIPTION: The driver education course includes assessing and managing risks, knowing yourself and your abilities, handling social pressures, signs, signals and markings, rules of the road, getting to know your car, starting, steering, stopping, basic driving skills, turning and parking, driving environments, light and weather conditions, sharing the roadway, natural laws and driving, responding to an emergency, buying a car, car systems and maintenance, and trip planning. The student must have 24 hours of classroom instruction and 24 hours of in car instruction, 6 hours of that behind the wheel. Upon successful completion of the course, 17-year-old drivers receive Senior Operator Class D classification, and most insurance companies offer at least a 10% discount on insurance rates. The class is offered immediately after school allowing enough time for after school jobs and/or sports practices and games.

ON-LINE COURSES OFFERED BY Cayuga CC (CCC) and Tompkins Cortland CC (TC3):

There are numerous courses that can be offered, and there are infinite possibilities for fitting them into a student's busy day! Please see your guidance counselor for details about this exciting opportunity.