Chenango Forks High School Planning Guide 2021-2022

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USING THIS GUIDE

Parents and students are urged to study the contents of this publication thoroughly and to make selections carefully. Counselors should be enlisted early in planning each student's program selection. Since education is a lifelong process, the importance of thoughtful, ongoing planning cannot be overemphasized. Selecting a sound and challenging program will prepare each student to move smoothly from high school to a job or onto higher education. It is our hope that you graduate from Chenango Forks High School feeling that you experienced the best the high school had to offer you as an individual.

The Departments in the high school have listed their course offerings. Following each course title, the recommended grade level and units of credit are given. The academic levels offered are Regents, Enriched, Advanced Placement, and College Level. If a course has a prerequisite, this means that a student must complete requirement(s) prior to entering the intended course.

The following questions can help you in planning your high school program:

1. Have I selected the right subjects for a Regents or Advanced Regents diploma?
2. Are my course selections consistent with my educational and career plans?
3. Am I taking a reasonable course load?

The counselors recommend that elective courses be taken to explore new areas of interest, to develop special skills, or develop appreciation of new areas. When a student requests an elective course that has a limited availability in the schedule, **enrollment in that elective is not guaranteed.**

Although each student will develop a program with the assistance of his/her counselor, the final responsibility for proper course selection is with the student and the parents/guardians.

Students may request enrollment in an AP class but admission is dependent upon department approval. Admission will depend upon academic grades, standardized tests and teacher recommendations. Any student enrolled in an AP class must take the National AP exam given in May.

OTHER IMPORTANT TOPICS

Credit

One unit of credit is given for all courses that meet one period per day for the entire year. One-half (.5) unit of credit is given for all courses that meet one period per day for a half year. Physical Education credit is given in .5 units and meets every other day for the entire school year.

Electives

An elective is a subject that a student may choose according to his/her interests, talents and ambitions. Future plans should be carefully considered in choosing elective courses.

Class Sizes

Class size may be limited by a teacher in coordination with a department chair and/or administration based on discussion and the potential of the following reasons:

- Safety concerns
- Available resources
- Prerequisite requirements
- Preference to Juniors and Seniors
- Preference to others who need to complete a specialized career ready program like BOCES, CDOS, or STEAM

Student Schedules and Course Loads **Policy #4430**

The Board of Education believes that district administrators should have final responsibility in determining the parameters for student schedules and course loads. All student schedules must conform to state requirements, and work to enhance student learning opportunities and improve individual academic achievement. The Board encourages course scheduling designed to accommodate teaching styles and subject materials which may not readily conform to traditional 40-60 minute class periods. Scheduling which makes provision for team teaching and inter-disciplinary arrangements is also encouraged.

High School staffing directly relates to student course selection. Students will be scheduled into the following units of study or credit as minimum requirements:

Grade 9 – 6 credits or units of study and lunch
Grade 10 – 6 credits or units of study and lunch
Grade 11 – 6 credits or units of study and lunch
Grade 12 – 5 credits or units of study
Revised: July 1, 2019

When making changes in district scheduling, administrators are encouraged to balance district budgetary concerns with overall instructional goals to achieve a system which is both flexible and cost-effective.

At the high school level, student course selection and program development take place during the period from December to May. Students and their parents/guardians shall be involved in selecting their programs for the following year, with educational needs and objectives as the prime considerations.

To promote stability, students and parents are asked to minimize changing course selections, once set. In those cases where a student's circumstances change, as a result of a change in vocational or college plans, or regular or summer school failure or achievement, allowance for a change in selected courses may be made upon application by the student and parent to the Building Principal.

Course Selection Process

1. The student, with the advice of the counselor and the consent of his/her parents, will prepare a subject selection sheet.
2. A list of the courses the student has selected for the following year will be issued to the student no later than May 15th. The purpose of this list is to verify the course selection.
3. If, upon receipt of this verification printout, the student discovers an error, it will be the student's responsibility to notify his/her counselor immediately. The counselor will also verify the printout and review the course selections.
4. If a student wishes to change his/her course selection (add and/or drop) after the initial selections have been made, a request, in writing, must be made to the counselor by the student and parent with reasons for the change prior to June 1st. The student will be advised as to the disposition of this request as quickly as possible.
5. If, as a result of the June report card grades (except in instances of failure, which will be handled automatically by counselors, who will make appropriate changes), a program change is indicated, a written request must be made by the student and parent to the counselor by the week following graduation. The student will be advised as to the disposition of this request as quickly as possible.
6. If, as a result of summer school attendance, a change of program is indicated (except in instances of failure, which will be handled automatically by counselors, who will make appropriate changes), a request by the student and parent must be made, with reasons for the change in writing, to the Building Principal by August 30th. The disposition of this request will be made to the student as quickly as possible.

Adding Courses
Students will be permitted to make additions to their programs provided that room exists in the section and in the appropriate corresponding slot in their schedule. **No additions will be permitted after the first 12 days of classes.**

Dropping Courses
If a student drops a course before 12-days, the student, teacher, counselor, parent and administrator must sign a course drop form.

A procedure for dropping a course after 12-days will involve the student, parent, counselor, teacher and an administrator.

If there is disagreement among the parties involved, a conference will be held with the Superintendent, who will make the final decision.

If the superintendent approves to drop a course, the student's mark will appear on the report card or permanent record, as a "W" for withdrawal.
Adoption date: February 8, 2018

REPEATING COURSES AT CHENANGO FORKS

In order to repeat a course:
1. A good faith effort must be demonstrated in the student's first attempt at course completion.
2. A petition to repeat the course and to have the first grade replaced must be complete within 31 days of the official posting of the final grade.
3. This procedure should be used for unusual circumstances only.
4. Permission will be granted by at least two of the following (Superintendent, High School Principal and/or the student's teacher for the class in question).
5. The option to repeat a course for credit cannot be used for the purpose of enhancing class rank during a student's senior year.

Repeating Courses in Summer School
Students should be offered a summer school course only if they are in academic jeopardy in that course or its corresponding Regents exam. A minimum Final Average of 50% is required to attend Summer School. This option cannot be used for the purpose of grade enhancement and both grades will be used in GPA calculation. Additionally, both grades will appear on the student's official transcript. When retaking a Regents exam, only the higher score will appear on the transcript.

MAKING THE MOST OF HIGH SCHOOL

Student Success
The strategies below are suggestions as an outline of steps parents may use to help their student(s) achieve success in the high school. Faculty and counselors are willing and able to assist parents in a variety of ways. Early intervention has proven to be helpful to motivate students.

What do Students Need to Do?
- Be on time to school and classes.
- Be in school every day.
- Stay for remedial:
  - When he/she does not understand material.
  - When absent to get make-up work and material.
  - Prior to tests for extra help and preparation.
  - When is requested to do so by a teacher.
- Bring all necessary supplies to class.

- Ask questions in class when he/she does not understand the material.
- Be alert, well rested and attentive in class.
- Follow teacher's directions.
- Keep accurate record of assignments and due dates, and use the Agenda booklet for this purpose.
- Use study halls to prepare for class and do homework.
- Maintain a positive attitude.
- Use problem – solving strategies when difficulty occurs or seek help from a peer or adult.

What do Parents Need to Do?

- Provide proper study area.
- Set up daily study times at home (no phone calls, TV, music or interruptions).
- Check homework.
- Provide necessary supplies, including Phys. Ed clothes, swimsuit, towel, etc.
- Attend parent orientation, college night, and financial aid night.
- Call teacher/counselor when he/she has questions.
- Request progress reports from all teachers.
- Provide encouragement and positive feedback.
- Reinforce the rules and regulations of the school.

Be Determined to Complete Your Goals.

- Take charge of yourself – develop your goals. (What do I want to accomplish by the end of the day, week, month, etc.?)
- Write down your goals. (Start with two or three short-term ones.)
- Think of what you want to do to continually improve yourself.
- Keep track of your progress. Don't be afraid to seek help if you encounter obstacles along the way.
- Look back and reflect upon your accomplishments with pride.

Now you're ready for the next challenge!! Don't forget to reward yourself by doing something you enjoy and keep up the good effort.

CHENANGO FORKS STEAM ACADEMY (STEAM) & WORK BASED LEARNING INTERNSHIP PROGRAM (WBL) GRADES 11 & 12

The Chenango Forks STEAM Academy was designed to create a variety of internship opportunities for Chenango Forks High School students in local businesses and industries to train students in entry-level positions in preparation for full time employment after H.S., secondary or post-secondary graduation.

Internships are available at the following businesses:

Broome community College	Education
C & S Companies	Engineering
CFCSD	Education
Coleman & Daniels	Funeral Home
Cornell Cooperative Extension	Agricultural Related
Keystone Associates	Architecture/Engineering
Lourdes Hospital	Health Care
Maines Paper and Food	Logistics/Business/Technology
McIntosh Labs	Manufacturing
Raymond Corporation	Engineering/Business
Roberson Museum	Science/Technology/Education
Rockwell Collins	Aerospace
Ross Park	Zoo
Sirgany Eyecare	Health Care
WSKG	Public Broadcasting (Radio and TV)

If a student has an interest that is not currently listed, that student should see the work based learning coordinator.

ADVANCED PLACEMENT (AP) COURSES (WEIGHTED AT 1.15)

These courses offer students a challenging nationally known curriculum. College credit for Advanced Placement courses are determined by the student's college and are based on the student's AP Test Score. For more information you can visit www.collegeboard.org. Students who qualify for free or reduced lunch may receive a fee waiver. Please see your counselor if this applies to you.
AP courses offered: AP Biology

COLLEGE LEVEL COURSES (WEIGHTED AT 1.15)

Students are responsible for any tuition costs associated with each course. It is up to the student to register for and to communicate any course drops directly to the college. Upon applying to college, students will need to contact the college to have official transcripts sent to their final college choice. Currently Chenango Forks offers courses though four colleges and universities.

College Level Courses

*Pending approval for 2021-2022 School Year.

Chenango Forks has many courses that offer potential college credit. These courses are either Advanced Placement courses or College Level courses. Students who take these courses should be prepared to be challenged. These courses require additional work, have higher standards, and will provide a student with a more in-depth study of the subject area. The following courses will be offered for the 2021 – 2022 school year pending Board approval:

American History (BCC)
Animation (BCC)
Anthropology (BCC)
Astronomy (TC3)
Business Information Technology 200 (BCC)
Business Information Technology 250 (BCC)
Calculus I (SUNY Albany)
Calculus II (SUNY Albany)
Child Development (Syracuse University)
Creative Non-Fiction Writing (Syracuse University)
Digital Photography (BCC)
Drawing II (BCC)
Economics (Syracuse University)
Elementary Statistics (SUNY Albany)
English 11 ENG 110 (BCC)
English 12 Intro to Literature (TC3)
English 12 Written Expression II (TC3)
Forensic Science (BCC)
Forensic Toxicology (BCC)
French IV (SUNY Albany)
French V (SUNY Albany)
Intro to Entrepreneurship (BCC)
Keyboarding w/ Microsoft (BCC)
Photoshop (BCC)
Physical Setting Chemistry (BCC)
Physics (BCC)
Pre-Calculus (SUNY Albany)
Public Affairs (BCC)
Quantitative Business Methods (BCC)
Spanish IV (SUNY Albany)
Spanish V (SUNY Albany)
Television Production (BCC)
Word Processing (BCC)

HONORS OR ENRICH COURSES (WEIGHTED AT 1.10)

At Chenango Forks there are Honors or Enriched courses that are preparatory for future college level work. Courses with this designation are weighted at 1.10 for class rank purposes. Currently the Enriched option is available in two courses Anatomy and World History 10.

NCAA APPROVED COURSES

Courses that are approved by the NCAA are denoted **(NCAA approved).** For more information on NCAA Eligibility Requirements, you can visit: www.ncaa.org/student-athletes

DIPLOMA ENDORSEMENTS

New York State Honors Endorsement
Presented to students who achieve an average of 90 percent in all Regents exams required for the particular Diploma (Regents or Advanced Designation) - (no rounding). This honor is imprinted on a seal to be affixed to the diploma and includes the phrase, "with Honors".

New York State Technical Endorsement
Presented to students who successfully completed a Career and Technical program at BOCES and have passed a national occupational and career exam in their training area. The technical endorsement is imprinted on a seal to be affixed to the diploma and includes the phrase, "Career and Technical Endorsement".

New York State Mastery in Math Endorsement
Meets all assessment requirements for the Advanced Regents Diploma and, in addition, scores 85 or better on each of 3 Regents examinations in Mathematics.

New York State Mastery in Science Endorsement
Meets all assessment requirements for the Advanced Regents Diploma and, in addition, score 85 or better on each of 3 Regents examinations in Science.

New York State Seal of Biliteracy
Presented to students as a formal recognition of a student's high level of proficiency in reading, writing, listening and speaking BOTH English and an additional world language. Students must apply and earn credit for both languages in accordance with the New York State Seal of Biliteracy Handbook.

REQUIREMENTS FOR THE ADVANCED REGENTS AND REGENTS DIPLOMA

Advanced Regents Diploma (22 Credits Required)

Credits	Subjects	Required Examinations
4	English	Regents Exam in English
4	Social Studies	Regents Exam in Global Studies Regents Exam in US History
3	Mathematics	Regents Exams in Algebra, Geometry and Algebra II
3	Science	Two Regents Exams in Science
3	Foreign Language	Pass One High School Course in the same Language
½	Health	Local Final
1	Art or Music	Local Final
2	Physical Education	Local Final

Regents Diploma (22 Credits Required)

Credits	Subjects	Required Examinations
4	English	Regents Exam in English
4	Social Studies	Regents Exam in Global Studies Regents Exam in US History
3	Mathematics	Regents Exam in Algebra
3	Science	One Regents Exam in Science
1	Foreign Language	Pass One High School Course
½	Health	Local Final
1	Art or Music	Local Final
2	Physical Education	Local Final

HIGH SCHOOL PLAN

Student Name: _____ Class of _____
Career Interest: _____
Colleges of Interest: _____
Majors: _____

8/9th Grade

Classes	PC	AVG	R	C
English I				
Global Studies				
Math				
Science				
LOTE				
Phys Ed				

Total Credits: Cumulative Credits:

_____
_____
_____

10th Grade

Classes	PC	AVG	R	C
English II				
Global Studies				
Math				
Science				
Phys Ed				

Total Credits: Cumulative Credits:

_____
_____
_____

11th Grade

Classes	PC	AVG	R	C
English 11				
American History				
Math				
Science				
Phys Ed				

Total Credits: Cumulative Credits:

_____
_____
_____
_____

12th Grade

Classes	PC	AVG	R	C
English 12				
Economics				
Part. In Gov.				
Math				
Science				
Phys Ed				

Total Credits: Cumulative Credits:

_____
_____
_____
_____

Testing Requirements: **Regents Diploma**

___ English ___ US History ___ Math
___ Global ___ Science

Additional Requirements for the **Advanced Regents:**

___ Science ___ Geometry ___ Alg. II Trig.
___ LOTE or ___ 5 Unit Sequence

Other Data: Cohort Group: _____Diploma Type: _____ Post-Secondary Plan _____

BUSINESS DEPARTMENT COURSES

ACCOUNTING
40 Weeks – 1 HS Credit
Grade Levels: 10, 11, 12
A full-year course designed to develop occupational competencies in bookkeeping. This course is also recommended for students going on to post-secondary accounting. Course content encompasses the complete accounting cycle for proprietorship and partnership accounting. Students will learn the language of business, banking activities, purchasing and related forms and payroll. Computerized accounting will also be offered in order to enhance the student's perspective of accounting. A local exam is given.

BIT 200 (College Level)
BCC: BIT 200 CF1 3080 SPREADSHEETS WITH BUSINESS APPLICATION (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Creation of spreadsheets, use of database functions and preparation of charts using functions and features appropriate for business documents. An excellent course for anyone thinking about studying business in college. In addition, this course satisfies the BCA concentration requirement.
PREREQUISITE: Keyboarding is a suggested prerequisite.

BIT 250 (College Level)
BCC: BIT 250 CF1 52461 INTEGRATED MICROSOFT OFFICE (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Integrated Microsoft Office will acquaint students with operating systems, word processing, database management, spreadsheet applications and preparation of graphics. Students will prepare business documents by embedding and linking files.
PREREQUISITE: Keyboarding is a suggested prerequisite.

INTRO TO ENTREPRENEURSHIP (College Level)
BCC: BUS 113 CF1 53607 INTRODUCTION TO ENTREPRENEURSHIP (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Designed for students who are considering a new business venture. Emphasis is placed on exploring and identifying what entrepreneurship is, understanding the challenges of entrepreneurship, recognizing and analyzing business opportunities, start-up issues, marketing, management, capital acquisition, forms of business organization, and other issues of relevance to the new entrepreneur.

KEYBOARDING W/MICROSOFT (College Level)
BCC: BIT 100 CF1 31722 KEYBOARDING W/MICROSOFT WORD (3 BCC Credits)
20 Weeks – ½ HS Credit ***freshman may NOT receive college credit**
Grade Levels: 9, 10, 11, 12
This one semester course could be the most valuable course you will ever take. Development of basic keyboarding techniques and skill building activities in order to attain speed and accuracy in keying exact copy by touch for 5 minutes with a maximum of 5 errors.

QUANTITATIVE BUSINESS METHODS (College Level)
BCC: BUS 112 CF1 31785 QUANTITATIVE BUSINESS METHODS (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
This course is a graduation requirement for students pursuing a five-unit occupational sequence to replace their requirement for three years of foreign language for the Advanced Regents Diploma, and **also a prerequisite for the STEAM program**. This half-year course looks at what you need to do to be successful in life. Everyone will need to find a job, finance purchases, pay rent or a mortgage, pay utilities, and work with a budget. Students will learn these skills and practice them before doing it for real. Quantitative analysis of

contemporary business problems. The course includes percentages, ratios, markup/markdown, cash and trade discounts. Simple and compound interest and insurance. Present value, future value, and annuities. An introduction to statistics and graphical analysis.

TELEVISION PRODUCTION (College Level)
BCC: COM 130 INTRODUCTION TO VIDEO THEORY AND PRODUCTION (3 BCC Credits)
40 Weeks – 1 HS Credit
Grade Levels: 10, 11, 12
This course is a yearlong, project-based curriculum that develops career and communication skills in digital video production, using Premier Pro and iMovie. Students will become proficient operating the cameras, lighting equipment, iPads and other studio equipment. Students will write scripts, interpret & block scenes and direct individual and team projects. Lectures will be spent reviewing material, readings, assignments and class projects. Labs will focus on hands-on production activities.

WORD PROCESSING (College Level)
BCC: BIT 130 CF1 53190 WORD PROCESSING APPLICATIONS (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 9,10, 11, 12 ***freshman may NOT receive college credit**

Concentration of speed and accuracy development. Advanced word processing functions using professional word processing software.
PREREQUISITE: Successful completion of Keyboarding.

Careers related to Business

Accountant
Auditor
Bank Teller
Cashier/Buyer
Controller
Data Entry
Financial Broker
Journalism
Legal Secretary
Office Manager
Receptionist
Retail Estate Broker
Sales Bank
Sales Manager
Telephone Sales
Word Processor

STEAM Work Base Learning Opportunities

INTERNSHIP (Co-op)
20 or 40 Weeks – ½ to 1 HS Credit
Grade Levels: 12

This isn't a traditional course, it is an opportunity for a senior to be able to work in a real life setting at a career that they have an interest in. We have many Business Partners throughout the community that are eager to bring on a High School senior and train them in a field of interest. The benefits to the student are:

- Provides opportunities to apply classroom learning to workplace experiences
- Establishes clear connections between education and work site career applications
- Creates opportunities for exploration of possible careers
- Increases motivation to stay in school by making education more relevant
- Improves awareness of postsecondary opportunities
- Increases technical skills through their application in authentic tasks
- Promotes the practice of positive work habits
- Increases understanding of workplace expectations and skills needed
- Enhances general workplace competencies, such as communication, teamwork, and project planning
- Allows observation of work ethics of workplace professionals
- Establishes professional contacts for future employment and mentoring

Fields of interest vary by student and we are eager to match a business partner that will fit your needs.

JOB SHADOWING OPPORTUNITIES
No HS Credit
Grade Levels: 11 & 12

This opportunity is an incidental occurrence. If a student wishes to observe firsthand what goes on in a specific career, we can arrange for a job shadowing opportunity. We have many Business Partners that will allow students to work with them for a day to get a look at what it's like pursue that career. This is also a good option before a work-based learning opportunity is chosen.

ENGLISH DEPARTMENT COURSES

CHILDREN'S LITERATURE
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
We've all seen the movies *The Wizard of Oz* or *Peter Pan*. But have you read the books? This course will focus on classic children's literature that you may have missed reading – or you think you knew from the movies. Class discussion will consider issues surrounding young people's literature such as: What themes are appropriate for certain age levels? What holds a child's interest? When is a book's theme not appropriate for young readers? What changes were made when making children's books into films? This course is a good introduction to students thinking of going into Elementary Education, illustration, or just interested in reading some timeless stories. Stories from all over the world will be considered in this course. Tall tales, Grimm's Fairy tales, Dr. Seuss, Mary Poppins, Peter Rabbit, folktales, as well as the Oz stories and others that are not traditionally studied in younger grade levels.

CREATIVE WRITING (NCAA approved)
20 Weeks - ½ Credit Grade
Grade Levels: 10, 11, 12
Designed to give students hands-on practice analyzing college-level literature and writing various forms of expression such as poetry, short stories and creative non-fiction. This course uses literature as a springboard for students' own creative writing. The class is set up in workshop format in order to give students the opportunity to read and critique the works of their peers and published works of great authors. Students are expected to produce a significant portfolio, showing evidence of extensive revision of each piece.

ENGLISH/LANGUAGE ARTS I (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9
This required course provides exposure to a variety of literary genres such as short stories, novels, poetry, drama, and non-fiction through close reading instruction. It focuses on grammar, usage, and other fundamentals of language as outlined in the Next Generation State Standards. Students receive an introduction to the research process and gain considerable practice in written expression in preparation for the Common Core English Regents Exam which is given in Grade 11.

ENGLISH/LANGUAGE ARTS II (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10
This course builds on the reading and writing skills studied in English/Language I. The literature includes close readings of novels, short stories, poetry, drama, technical and informative texts. Students are given several assignments that mirror the Common Core English Regents Exam which is given in Grade 11.

ENGLISH/LANGUAGE ARTS III (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 11
This course is the study of the development of American Literature as outlined in the Next Generation State Standards. Students are exposed to a wide variety of literary and informational texts to utilize and enhance their reading and writing skills from the previous year. The Common Core English Regents Exam is given in June of the student's junior year.

ENGLISH/LA III (College Level) (NCAA approved)
Semester 1: Advanced American Literature (weighted CF credit)
Semester 2: SUNY Broome ENG 110: Intro to College Writing (3 SUNY Broome credits)
40 weeks- 1 HS Credit
Grade Levels: 11
English College is divided into two separate courses: ENG 110, a Fast Forward SUNY Broome course and Advanced American Literature, a course offered for weighted credit, but not college credit. Students who enroll in ENGLISH /LA III (College Level) must take both courses. Upon successful completion of the SUNY Broome course, a student receives 3 credits of college English.
PREREQUISITES: English 9 and **English 10** teachers' recommendations **AND** An overall average of **92% or above** in English 10. In addition, students must earn an 85% or higher on the Common Core English Regents exam to be enrolled in the SUNY Broome Fast Forward course.

ENGLISH 12 (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 12
This course uses selected works of world literature, beginning with the ancient Greeks, to our current time. This course is designed to prepare students for the rigors of critical thinking, reading, and writing necessary to be college and career ready.

ENGLISH 12 (College Level) (NCAA approved)
Semester 1: TC3: ENG 101 Written Expression II (3 TC3 credits)
Semester 2: Advanced World Literature (weighted CF credit)
40 Weeks - 1 HS Credit
Grade Levels: 12
English 12 College Level is divided into two separate courses. The first semester is offered by the TC3 College Now Program. The second semester is Advanced World Literature, a course offered for weighted credit, but not college credit. Students who enroll in College English 12 must take both courses. Upon successful completion of these courses, a student receives 3 credits of college English.
PREREQUISITES: An overall average of **90% or above** in college level English 11 **OR** an overall average of **95% or above** in English 11 **and** teachers' recommendations.

Careers related To English

Actor
Advertising
Auctioneer
Buyer
Copywriter
Critic
Editor
English Teacher
Interpreter
Journalist
Lecturer
Librarian
Marketing
Novelist
Printer
Proofreader
Public Relations
Radio Announcer
Reading Specialist
Salesman
Speech Therapist
Sports Writer
Technical Writer
Television Writer

FAMILY AND CONSUMER SCIENCE DEPARTMENT COURSES

CHILD DEVELOPMENT (College Level) (NCAA approved)
SU: HFS 202 THE DEVELOPMENT OF CHILDREN (3 Syracuse University Credits, *tuition cost required)
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
This class is a ***Developmental Psychology of Childhood and Adolescence.*** It is an overview of the principles of development during infancy, childhood, and youth and the factors that contribute to children's optimal development. The course content covers theories and research on child development including biological development, physical development, language and cognitive development, social development, and personality development.
The course uses the same syllabus and textbook used for college students on Syracuse University campus. The class will include weekly visits to a Chenango Forks Elementary classroom to gain valuable experiences in working with young children. This is an excellent opportunity for students who are interested in possible careers in Education, Healthcare, Psychology, or Human Services. SUPA course credit has a 90% rate of transfer to other colleges and universities.

FOODS I - BASICS FOOD PREPARATION AND NUTRITION (CORE)
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
Learn to select, prepare, and serve healthy, delicious foods. Food selections for breakfast, brunch, lunch, dinner, and special occasions will be prepared. Course content includes nutrition awareness, menu selection, food purchasing, basic food preparation, meal service and related career exploration.

FOODS II – ADVANCED FOOD PREPARATION - BEYOND THE BASICS
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
Students will learn to select and prepare a variety of gourmet foods, including appetizers, soups, pastries, breads, cookies, fancy cakes, candies, outdoor grilling and specialty food items. Course content will include advanced preparation techniques, the importance of food presentation and garnishing, and the use of specialized equipment.
PREREQUISITE: Successful completion of Foods I.

FOODS III – GLOBAL FOODS AND FITNESS
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
Students will learn to prepare fun and exotic foods influenced by various cultures from around the United States and the world. Students will prepare foods and discuss the nutritional value of exciting new foods. Course content will also include healthy eating for personal fitness.
PREREQUISITE: Successful completion of Foods I.

HUMAN DEVELOPMENT – LIFETIME STUDIES
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
A course designed to explore all aspects of human development from infancy to old age. Students will study the physical, emotional, social, and cognitive aspects of infants, toddlers, school age children, adolescents, young adults, middle age and old age. Course content includes: developmental theories, characteristics of development for each age group, understanding relationships across the lifecycle, and careers related to human services.

Careers related to Family and Consumer Science

Baker
Chef
Cosmetologist
Dairy Inspector
Decorator
Dietitian
Fashion Designer
Food Chemist
Housekeeper
Institution Manager
Interior Designer
Midwife
Nurse's Aide
Nutritionist
Registered Nurse

FINE ARTS DEPARTMENT COURSES

ART THERAPY
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
This course will open up professional career opportunities in art therapy. Art therapy will enhance students' ability to work in a project-based learning environment through hands on activities by setting goals and achieving them. Students will communicate through creative expression in mixed media projects and media literacy. Students will develop an outlet for personal expression. This course will provide students with the critical thinking skills to use art, music and movement in a therapeutic way.

CONTEMPORARY CRAFTS I
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course will introduce students to a wide variety of indigenous design processes and materials (such as henna, tie-dye, batik, paper-making, fibers etc.), with an emphasis on craft as fine and applied art. Emphasis is placed on studio projects and hands on learning through lecture, research, demonstration and visual examples.

CONTEMPORARY FILM ANALYSIS (College Level)
BCC: COM 145 CONTEMPORARY FILM ANALYSIS (3 BCC CREDITS)
40 Weeks – 1 HS Credit
Grade Levels: 10, 11, 12
This is a survey course designed to introduce students to the broad range of theoretical, formal, and historiographical issues related to cinema. We will learn how the film medium differs from other media as a condition of its stylistic and formal properties, its institutional production, and its historical reception and its historical context. What does that all mean? Expect to watch, and discuss, at least 30 films and 25 TV show episodes over the course of the year spanning a variety of genres (such as Western, Horror, Comedy, Musical, Science Fiction, etc.) and talk about what makes movies cool, as well as how they are created, along with some hands-on activities.

DRAWING 1
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Emphasis on a series of open-ended interrelated problems dealing with visual language, its vocabulary, and organization. Drawing problems will intensify the student's perception and comprehension of the elements and principles of design and student's perception and comprehension of light, space, and form will be given special emphasis. Format involves intensive instruction and demonstrations in pencil, pen and ink, and mixed media as a means to personal investigation, understanding, and expression.

DRAWING 2 (College Level)
BCC: ART 115 CRN 54253 BEGINNING DRAWING (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
Drawing 2 will build on the skills developed in Drawing 1, taking students on an even deeper exploration of technique, style and critical thinking, as well as an exploration of additional materials and methods such as charcoal, powdered graphite and colored pencils.
PREREQUISITE: Successful completion of Drawing 1.

INTRODUCTION TO ACRYLIC PAINTING
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course will explore acrylic painting. Acrylic paint is opaque, can be used thin or thick, and dries quickly to a waterproof finish. There will be an exploration of various acrylic painting brush and blending techniques to apply to realistic, abstract and non-objective projects. Students will create their own individual style using wet art mediums and develop an appreciation for art.

INTRODUCTION TO WATERCOLOR PAINTING
40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12
This course will explore a variety of watercolor mediums including; watercolor pencils, watercolor liquids, watercolor tubes, and watercolor pan set. There will be an exploration of numerous watercolor painting brush techniques to apply to realistic, animated and non-objective projects. Students will create their own individual style using wet art mediums and develop an appreciation for art.

PHOTOSHOP (College Level)
BCC: ART 124 CRN 33552 INTRODUCTION TO COMPUTER GRAPHICS (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Students will learn to use the computer as an artist's tool. They will learn basic Adobe Photoshop Software functions. They will gain experience with photo editing, digital cameras and scanning. Students will get an idea of how computer art is used in society and the professional working world, and insights into computer art as a career. Students will learn to re-touch photos, alter and modify photos, and how to create artwork from scratch on the computer. **No computer skills are necessary**.

STUDIO ART 2D
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
Introduction to design involves the student with investigation of visual perception and organization, training the eye to become sensitive to design elements and principles is emphasized. The student will become familiar with a variety of media and techniques through lecture, research, hands on project based learning and visual examples.

STUDIO ART 3D
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course is designed to develop sensitivity and awareness of our spatial environment is the object of this course. This enables the student to understand the functionality and aesthetics of the three-dimensional environment. Emphasis is placed on studio projects and hands on learning through lecture, research, demonstration and visual examples.

Studio in Cartooning
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Do you enjoy drawing cartoon character or reading graphic novels or online comics? Or do you wish you could draw cartoons? In Cartooning, students learn about the history and techniques of illustration and cartooning in conjunction with learning about their aesthetic properties (fancy way of saying what makes a cartoon look good). Students will study uses for and thematic elements, character development incorporated into political and social cartoons, comic strips and comic books. Careers in cartooning, animation and interactive gaming will be discussed. We are going to have some fun!

Studio in Sculpture
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Sculpture is one of the visual arts that explores ***3-dimensional space!*** Sculptural processes originally used carving (the removal of material) and modelling (the addition of material, as clay), in stone, metal, ceramics, wood and other materials but, today there is almost complete freedom of materials and process. Students will also learn the methods of working with clay such as coiling and slab building and will explore kinetic sculpture (sculpture that uses light, sound and/or movement).Students are encouraged to explore individual
styles while producing a diverse body of three-dimensional work.
PREREQUISITE: Studio Art

Careers related to Art (partial list)

Advertising/Communications
Animator
Appraiser
Archaeologist
Architect
Art Therapist
Cartoonist
Designer-Advertising
Designer-Automotive
Designer-Costume
Designer-Fashion
Designer-Industrial
Designer-Interior
Designer-Toy
Designer-Game
Designer-Web
Film/Broadcasting-Cameraman
Film/Broadcasting-Digital Effects Artist
Film/Broadcasting-Director
Film/Broadcasting-Editor
Film/Broadcasting-Foley Artist
Film/Broadcasting-Grip
Film/Broadcasting-Make-up Artist
Film/Broadcasting-Special Effects Artist
Film/Broadcasting-Storyboard Artist
Film/Broadcasting-sound Engineer
Film/Broadcasting-Writer
Illustrator
Interior Decorator
Jeweler
Landscaper/Landscape Architect
Lithographer
Museum Acquisitions
Museum Curator
Museum Docent
Museum Restorer
Photographer
Photojournalist
Printer
Sound Technician
Stage Hand
Teacher

HEALTH AND PHYSICAL EDUCATION DEPARTMENT COURSES

HEALTH EDUCATION
20 Weeks – ½ HS Credit
Grade levels: 9, 10, 11, 12
Health is a required course for graduation emphasizing physical, intellectual, emotional, and social health. Life skills will be taught that will help students make knowledgeable decisions and communicate effectively. This course will provide students important information about nutrition, fitness, prevention and management of disease, death & dying, stress, mental health, suicide, advocacy, family life (relationships, human sexuality, parenting), substance use and abuse, consumer safety and other current topics in health and wellness. The students will be introduced to a variety of community resources that help individuals manage their personal health.

PHYSICAL EDUCATION
40 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
All students in Grades 9-12 must take and successfully complete Physical Education each year.
Successful completion of this annual requirement in 9-12 is based on attendance, preparation, participation and attitude. All courses will receive a numerical grade based on a 100-point scale. Emphasis is placed on learning intermediate and advanced skills related to both individual and team sport activities, as well as becoming proficient at these activities.

The following lists many of the activities offered at the 9-12 level: (some offerings vary every other year)

Aerobic Fitness
Aquatics
Archery
Badminton
Basketball
Canoeing
Challenge Ropes Course
Cross Country Skiing /Snowshoe
European Handball
Flag Football
Floor Hockey/Field Hockey
Golf
Kayaking
Lifeguard Training
Mask/Fins/Snorkel
Mountain Biking
Pickle-ball
Pillow Polo
Racquetball & Hand Ball
Recreational Games
Rock Climbing
Softball
Speedball (Soccer Lead up game)
Ultimate Frisbee
Volleyball
Yoga/Dance

Careers related to Health and Physical Education

Aerobics Instructor
Athletic Trainer
Chiropractor
Coach
Counselor
Drug and Alcohol Counselor
Personal Trainer
Physical Education Teacher
Physical Therapist
Physician's Assistant
Vocational Rehabilitation

MATHEMATICS DEPARTMENT COURSES

ALGEBRA I (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9
This is the first course in a 3-year math sequence that is required for the advanced Regents diploma. Topics covered will include: The real number system, polynomials, solving and graphing linear equations and inequalities, solving systems of linear equations and inequalities, factoring, algebraic fractions, radicals, quadratics and transformations on graphs of functions. An emphasis will be placed on functions and problems involving functional notation. Students WILL take a New York State Regents exam at the end of this course in June.

ALGEBRA I, 2 Year - PART I (NCAA approved .5 credit)
40 Weeks – 1 HS Credit
Grade Levels: 9
This course, followed by part 2 of the Integrated Algebra sequence, covers all of the same topics as the full year course described above. Because the content is spread out over 2 years, the pace of the course can allow more time for practice and mastery. The topics covered in the first-year course include: The real number system, polynomials, linear equations and inequalities, graphing of linear equations and inequalities, systems of linear equations, factoring, algebraic fractions and an introductory study of statistics. Students will **NOT** be taking a New York State Regents exam at the end of this course.

ALGEBRA I, 2 Year - PART 2 (NCAA approved .5 credit)
40 Weeks – 1 HS Credit
Grade Levels: 10
This course, preceded by part 1 of the Integrated Algebra sequence, covers all of the same topics as the full year course described above. Because the content is spread out over 2 years, the pace of the course can allow more time for practice and mastery. The topics covered in the second-year course include: Functions and problems involving functional notation, verbal problems involving linear equations and inequalities, non-linear functions such as quadratics. Students WILL take a New York State Regents exam at the end of this course in June.
PREREQUISITE: Successful completion of Algebra I, 2-year, Part 1.

ALGEBRA II (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10, 11
This is the third math course required to graduate with an advanced Regents diploma. Major topics include: The rational numbers, rational expressions, the real numbers, relations and functions, exponential functions, logarithmic functions, sequences and series, complex numbers, trigonometry and statistics. Students will take a New York State Regents exam at the end of this course in June.
PREREQUISITE: Successful completion of Geometry or GeoTrig 2.

CALCULUS I (College Level) (NCAA approved)
SUNY Albany: MAT 112 CALCULUS I (4 SUNY Albany Credits, *tuition cost required*)
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
The study of how things in the world around us are changing and/or accumulating. Students will learn in depth about the different classes of functions and how to find their derivatives and integrals. The classes of functions covered include linear, quadratic, polynomial, radical, rational, logarithmic, exponential, piecewise and trigonometric. As the students learn about each new function class they will discuss "real world" situations that involve these functions and their derivatives/integrals.
SUNY Albany tuition fees (reduced rate for students qualifying for free/reduced lunch) will be charged if college credit is desired.
PREREQUISITES: Pre-Calculus.

CALCULUS II (College Level) (NCAA approved)
SUNY Albany: MAT 113 CALCULUS II (4 SUNY Albany Credits, *tuition cost required*)
20 Weeks – ½ HS Credit
Grade Levels: 12
The study of accumulation of a quantity while the rate of accumulation is variable.
Topics include: Techniques of integration, applications of the definite integral, limits of indeterminate form, improper integrals, infinite series, Taylor polynomials, the calculus of polar and parametric functions.
A fee will be charged if SUNY Albany credit desired. Successful completion of the course will earn the student 4 College credits that are often transferrable to other colleges.
PREREQUISITE: Successful completion of Calculus I.

COLLEGE PREP ALGEBRA
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
This course is offered to strengthen algebraic skills in many areas such as, but not limited to polynomials, rational expressions, applications of linear and quadratic functions, logarithms, sequences, series, matrices, solving triangles and trig equations. This course is intended for those students who wish to take a fourth math other than BCC Foundations or Pre-Calculus. **This course is not offered for college credit.**
PREREQUISITE: Successful completion of Geo/Trig II or Algebra II.

ELEMENTARY STATISTICS (College Level) (NCAA approved)
SUNY Albany: MAT 108 ELEMENTARY STATISTICS (3 SUNY Albany Credits, *tuition cost required*)
20 Weeks – ½ HS Credit
Grade Levels: 12
This course includes all aspects of analysis of statistical data. Graphing calculators and Minitab computer software will help in this analysis. Topics include: Organizing data, averages and variation, binomial probabilities, normal distributions, estimation, hypothesis testing, chi-square distributions, non-parametric statistics and regression correlation. Albany tuition fees (reduced rate for students qualifying for free/reduced lunch) will be charged if college credit is desired.
PREREQUISITE: Successful completion of Algebra II or College Algebra.

FOUNDATIONS OF COLLEGE MATHEMATICS
40 Weeks – 1 HS Credit
Grade Levels: 12
This course is designed to prepare college bound students for entering their college with the ability to take a credit bearing math course. Not only will it be an in-depth review of high school mathematics but it will focus on using real life examples of where high school math can be applied. Students completing this course with an average of 70 or better will be able to avoid the placement test at SUNY Broome and enter directly into a credit bearing, general education fulfilling math course. Topics include: math modeling using linear, quadratic, and exponential and trigonometric functions; number sense without a calculator; data analysis; working with polynomial and rational expressions and equations; applications of right triangle trigonometry; exploring compound interest.
PREREQUISITE: Successful completion of Geometry/Trigonometry II.

GEOMETRY (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9, 10
This is the second course in the 3-year sequence to gain an advanced Regents diploma. Topics include formal geometric proofs dealing with congruency and similarity, formal logic proofs, coordinate and transformational geometry, solid geometry, circle geometry, constructions and locus problems.
Students WILL take a New York State Regents exam at the end of this course in June.
PREREQUISITE: Successful completion of Algebra I.

GEOMETRY/TRIGONOMETRY I (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10, 11
This is the 3rd course of the three-year math sequence required for high school graduation (provided that students have completed Integrated Algebra parts 1 and 2). This course covers a survey of Euclidean and plane geometry as well as a review of algebraic topics and an introduction to trigonometry functions. Students will NOT be taking a Regents exam at the end of this course.
PREREQUISITE: Successful completion of Algebra I.

GEOMETRY/TRIGONOMETRY II (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 11, 12
This course is offered to senior students looking to increase their chances of having success at college level math or juniors who are preparing to take the Algebra II/Trigonometry in their senior year. This course provides a survey of Intermediate Algebra as well as a study of trigonometric functions. Many of the topics will include hands on activity to help relate math to the real world. There will be a focus on mathematical literacy and preparing the students to be successful at the everyday tasks they will encounter after graduation. Students will NOT be taking a Regents exam at the end of this course.
PREREQUISITE: Successful completion of either Geometry or Geometry/Trigonometry 1.

PRE-CALCULUS (College Level) (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 11, 12
This course is designed specifically for the student who anticipates taking calculus at some point in the future. Topics include the algebraic and graphical nature of functions, trigonometric functions, exponential and logarithmic functions, trigonometric identities, polynomial and rational functions, analytic geometry, conic sections, polar coordinates and graphs, sequences and series, math induction and matrices. There will be an emphasis on real world applications of many of the above topics. Students will **NOT** be taking a Regents exam at the end of this course.
PREREQUISITE: Successful completion of Algebra II.

Careers related to Mathematics

Accountant	Carpenter	Finance	Physician
Actuary	Chemical Engineer	Game Design	Physicist
Aeronautical Engineer	Chiropractor	Geology	Robotics Engineer
Architect	Civil Engineer	Marketing	Software Designer
Assessor	Computer Animation	Mathematician	Statistician
Astronomer	Cryptologist	Mechanical Engineer	Surgeon
Attorney	Dentist	Nuclear Engineer	Surveyor
Auditor	Doctor	Nurse	System Analyst
Biology	Draftsman	Oceanography	Tax Expert
Bookkeeper	Economist	Optometrist	Tool Designer
Business Administration	Electrical Engineer	Pharmaceutical Engineer	

MUSIC DEPARTMENT COURSES

CONCERT BAND

40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12

Consisting of Concert Band, Marching Band, and Pep Band. Band is open to all students interested in instrumental music. Performances by the band include formal concerts, assemblies, graduation and parades. Additional activities such as concert tours, competitions, and exchange concerts are also scheduled on a year-to-year basis. In the past several years, the band has traveled to and performed in Orlando, Florida; Williamsburg, Virginia; Boston, Massachusetts; Cleveland, Ohio. Attendance at weekly sectional lessons and all performances is required.

CONCERT CHOIR

40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12

The Chenango Forks High School Concert Choir is open to all students in grades 9-12 and of mixed voices. This course has an emphasis on developing vocal and choral skills and excellence in performance which rehearses every day. Performances are required and include the Chenango Forks Winter Concert, Spring Concert, High School Graduation, school assemblies, and other performance opportunities.

MUSIC THEORY (College Level)

BCC: MUS 104-01 FUNDAMENTALS OF MUSIC (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12

This course is for those students having little or no prior knowledge of music theory but desiring to learn and explore the basic tools of music: clefs, note names, scales, rhythm, intervals, key signatures, form and familiarity with the piano keyboard. The objectives for this course are as follows: To introduce students to the fundamental elements needed to write and perform music. To develop a sensitivity and appreciation for the creation and analysis of music and how its tenets are grounded in form and structure. To develop an understanding of how the algorithmic and affective dimensions of music are balanced when composers create meaningful works of art.

NON-TRADITIONAL MUSIC

20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12

Students will have an opportunity to explore music outside of the traditional music ensemble setting. Students will gain musical knowledge of many non-traditional instruments from around the world, such as ukulele, African drumming, and rock band instruments.

Careers related to Music

Disc Jockey
Instrumentalist
Instrument Repair
Lyricist
Music Critic
Musical Theater Performer
Music Therapist
Production Music Writer-TV
Production Music Writer-Movie
Singer (Vocalist)
Song Writer
Sound Technician
Stage Hand
Teacher

SCIENCE DEPARTMENT COURSES

ANATOMY/HUMAN BIOLOGY I (Enriched)
20 Weeks – ½ HS Credit
A general human anatomy and physiology course. An in-depth study of the human body and the systems that govern it. Normal structure (gross and microscopic) and function of the skeletal, muscular and nervous systems. Emphasis on physiology in lectures and anatomy in the laboratory. Emphasis on physiology in lectures and anatomy in the laboratory.
PREREQUISITE: Successful completion of Living Environment Biology.

AP BIOLOGY (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 11, 12 (10th if Biology was taken in 9th grade)
A college freshman General Biology course with specialization in biochemistry, bioenergetics, molecular genetics, heredity, anatomy, physiology, evolution, behavior, and ecology. Emphasis on the Advance Placement College Board required laboratory investigations. Double period classes every other day. Open to Grades 11 and 12.
There is a required Advanced Placement exam at the completion of this course.
PREREQUISITES: Successful completion of Living Environment Biology **and** Physical Setting Chemistry.

APPLIED CHEMISTRY
40 Weeks – 1 HS Credit
Chemistry in Context is a course designed for college bound students that do not plan to major in science. The course allows students to discover the fundamental principles of chemistry through its application in their world, both locally and globally. Students will explore societal issues such as climate change, pollution, industrial procedures, and water/food quality among others. Chemistry concepts will be learned in the context of real-world applications and issues. Much of the course will be hands-on and will challenge students to work as individuals and teams to answer questions and seek solutions to problems using scientific reasoning. Grades will be based on participation, projects, labs, and appropriate assessments of knowledge and skills attained.
PREREQUISITE: Successful completion of Living Environment Biology.

ASTRONOMY (College Level) (NCAA approved)
TC3: ASTR 101 INTRODUCTORY ASTRONOMY (3 TC3 Credits)
20 Weeks – ½ HS Credit
Exploring the universe is an exciting challenge as you are led away from earth on a journey through the cosmos and back again. Starting with a look at the historical origin of the constellations and a basic knowledge of the sky, you are taken into the realm of the stars, galaxies, and the universe at large. Current theories of the birth, life, and death of stars will show you the possibilities of extraterrestrial life. Theories of the origin of the universe will give you an informed opinion of the nature of existence itself. The return trip to earth brings you a look at our solar system with the NASA provided knowledge of the planets.
PREREQUISITE: Successful completion of Physical Setting Chemistry.

BIOMEDICAL SCIENCE
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Students examine the interaction of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Manikin; use data acquisition software to monitor body functions such as muscular movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases
PREREQUISITE: Successful completion of Living Environment Biology.

COMPUTER SCIENCE
20 Weeks – ½ HS Credit
Introduction to the fundamentals of coding, web design, and structured programming using Python. Topics may include input-output statements, data types, loop structures, decision structures, and functions. Assignments include using a Python compiler to create programs showcasing the aforementioned topics.
PREREQUISITE: Successful completion of Algebra I.

ENVIRONMENTAL SURVIVAL
20 Weeks – ½ HS Credit
In this class, students will study how to survive in our ever-changing environment. With an emphasis on the outdoors, this class will teach students how to identify various life-sustaining elements of nature and to appreciate their surroundings. Stress will be placed on humanity's impact on our ecosystems. Students will examine the first-hand observations and experiences of survivalists and nature writers. This class will also provide students with hands-on experiences such as tracking game; growing, gathering and storing food; making candles and soap; building basic shelters.
PREREQUISITES: Successful completion of Living Environment Biology, outdoor clothing, and footwear.

FORENSIC SCIENCE (College Level) (NCAA approved)
BCC: CHM 121 8OF 30808 FORENSIC SCIENCE (3 BCC Credits)
20 Weeks – ½ HS Credit
The science behind the examination of firearms, cartridges, explosives, drugs and other types of physical evidence by the crime lab is presented. Emphasis on the proper handling of substances found at crime scene investigations. Laboratory techniques include many modern instrumental methods, such as gas chromatography, infrared and mass spectroscopy as used in today's modern crime labs.
PREREQUISITE: Successful completion of Living Environment Biology or concurrent enrollment in Chemistry accepted.

FORENSIC TOXICOLOGY (College Level) (NCAA approved)
BCC: CHM 290 80F 30808 FORENSIC TOXICOLOGY (3 BCC credits)
20 Weeks – ½ HS Credit
The Forensic Toxicology course is designed to provide the student with the basic knowledge to understand the deleterious effects of drugs and chemicals on the human body. If you have ever wondered about drugs and poisons and their interactions in biological systems, what makes heavy metals, such as lead and mercury, toxic, or how to assess food additives and contaminants, then this course will begin to answer some of your questions. This course introduces the basic principles of toxicology, to include recognition of toxic responses, toxicity testing methods and mechanisms of action of specific classes of compounds and environmental contaminants.
PREREQUISITES: Successful completion of Living Environment Biology and Physical Setting Chemistry (Concurrent enrollment in Chemistry accepted).

LIVING ENVIRONMENT BIOLOGY and LAB (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
As living things, we are deeply connected to the world around us. By exploring these connections, we get a better understanding of the environment we live in, and can make a positive impact on the future. In this class, students will be required to make connections between important biological concepts, and apply that knowledge on a grand scale. Topics for this course include cells, plants and animals, biochemistry, ecology, evolution, and human body systems. Lab periods are three days out of every six-day cycle. Overall grade will be based on a combination of homework, labs, quizzes, tests, and projects. There is a regents examination for this course.
PREREQUISITE: Successful completion of Physical Setting Earth Science.

NATURAL DISASTERS
20 Weeks- 1/2 HS Credit
This course examines the underlying natural processes that give rise to natural disasters such as earthquakes, tsunamis, volcanic eruptions, hurricanes, tornadoes and more. The course also examines technological innovations to better monitor, predict, and warn society about natural hazards and impending disasters.
PREREQUISITE: Successful completion of Physical Setting Earth Science.

PHYSICAL SETTING CHEMISTRY and LAB (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
Regents Physical Setting Chemistry is an exploratory course, which allows students to discover the fundamental principles of chemistry, which shape the world we live in. This course is governed by the New York State Board of Regents, and all students will take a statewide Regents Exam in Chemistry in June. Topics will include: Atomic concepts, periodic table, moles and stoichiometry, chemical bonding, nomenclature, physical behavior of matter, gases, solutions, thermos-chemistry, kinetics and equilibrium, oxidation-reduction, acids and bases, organic chemistry, and nuclear chemistry. This course will also consist of laboratory experiences where the concepts found within the NYS curriculum will be explored. Every Regents student is required to complete all laboratory experiences before being allowed to take the Physical Setting Chemistry Regents Examination. Grade will be based on chapter tests, quizzes, homework, labs, and projects.
PREREQUISITES: Successful completion of Algebra I **and** Living Environment Biology.

PHYSICAL SETTING CHEMISTRY (College Level)
BCC: CHM 145 GENERAL CHEMISTRY I (4 BCC Credits)
BCC: CHM 146 GENERAL CHEMISTRY II (4 BCC Credits)
40 Weeks – 1 HS Credit
Grade Levels: 11, 12
A college freshman general chemistry course. An in-depth study of the same topics given for Regents Chemistry. All topics are studied in greater detail. Chemical mathematics is used for all topics. A calculator is a necessary tool. Double period classes every other day. Grade based on unit exams, lab reports, quizzes and homework. Open to Grades 11 and 12.
PREREQUISITE: Successful completion of Physical Setting Chemistry **or** permission from instructor.

PHYSICAL SETTING EARTH SCIENCE and LAB (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
This course allows students to explore and improve their learning and understanding of major core concepts in the Earth Science curriculum such as weather, astronomy, oceanography and geology. Content will be presented through student directed class activities, hands on laboratory experiments, and visuals such as video clips, diagram, tables, and charts. Students will apply their knowledge gained from this course on the New York State Earth Science Regents Exam.

PHYSICAL SETTING PHYSICS (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
Introductory algebra-based physics course. Major topics to be studied in this course are mechanics, wave phenomena, electricity, and atomic/nuclear physics. Grade based on quizzes, tests, labs and homework. 3-labs every 6-day cycle in addition to meeting every day for class discussion and lecture. There is a Regents examination for this course.
PREREQUISITE: Successful completion of Algebra II/Trigonometry.

PHYSICS (College Level) (NCAA approved)
BCC: PHY 161 GENERAL PHYSICS I (4 BCC Credits)
BCC: PHY 162 GENERAL PHYSICS II (4 BCC Credits)
40 Weeks – 1 HS Credit
Grade Levels: 11, 12
College Physics is an algebra-based college level physics class in which the following topics are studies: Newtonian Mechanics, Electricity and Magnetism, Thermodynamics, Energy, Phenomena, Fluid Mechanics and Modem Physics. Grade is based on the unit exams, lab reports, quizzes and homework. Double period classes are every other day.
PREREQUISITES: Successful completion of Physical Setting Chemistry and Algebra II.

SCIENCE AND TECHNOLOGY OF INDUSTRY
40 Weeks – 1 HS Credit
This course is designed to help students understand what engineering is at a level that is appropriate to their knowledge of mathematics and science. It is also designed to inspire students to explore career pathways in engineering and technology. This class will help students develop the technological literacy and problem-solving skills that are valuable in today's world as well as first-year post-secondary engineering and engineering-technology programs. Units discussed may have "hands on" projects to help reinforce engineering concepts. Heavy emphasis is placed on problem solving and science concepts. ***Students may use this course to fulfill the 3rd year science requirement.**
PREREQUISITE: Approval by the Science Department Chairperson.

Careers related to Science

Agriculturist
Architect
Astronomer
Bacteriologist
Biologist
Ceramic
Chemical
Engineering
Chemist
Chiropractor
Conservationist
Cytotechnologist
Dentist
Ecologist
Electrician
Entomologist
Environmental
Scientist
Exterminator
Forester
Game Warden
Genetic Engineer
Geologist
Horticulturist
Inventor
Landscaper
Marine Geologist
Med. LabTech.
Med. Records Tech.
Meteorologist
Navigator
Nuclear Physicist
Occupational
Therapist
Oceanographer
Osteopath
Optometrist
Pharmacist
Physical Therapist
Phlebotomist
Radiation Therapist
Respiratory Therapist
Physician
Physicist
Researcher
Teachers
Technical Writer
Topologist
Wildlife
Conservationist
Zoologist

SOCIAL STUDIES DEPARTMENT COURSES

AMERICAN HISTORY & GOV'T 11 (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 11
Major topics include American Government (the development of American Government from 1776-1875) and U. S. History from 1875 to the present. There is a required Regents exam offered in June.
PREREQUISITES: Successful completion of Global History 9 **and** Global 10.

AMERICAN HISTORY (College Level) (NCAA approved)
BCC: HIS 130 CF1 30825 U.S. HISTORY I (3 BCC Credits)
BCC: HIS 131 CF1 52462 U.S. HISTORY II (3 BCC Credits)
40 Weeks – 1 HS Credit
Grade Levels: 11
This is a college level course in American History. The History Dept. of BCC requires 25 pages of outside writing each semester. Outside time: at least one hour per day. Open only to Grade 11 Students. This course will also suffice for the State mandated course in Grade 11 American History Government.
In order to take the BCC course a student must show academic ability and maturity to handle the course work and meet the following requirements: 1) An 85 average in AP World History or a 94 average in their 10th grade Global History course. 2) Teacher recommendation, 3) Final acceptance by the instructor of History 130 & 131 and the 10th grade teacher of record.
Please Note: Any student in History 130 BCC (Fall Semester) not finishing with a minimum of a C+ (79) will not be allowed to take History 131 BCC (spring semester). Also, to qualify for the BCC 12th grade Social Studies course (Public Affairs), a student must complete BCC 130 & 131 with a C+(79) or better or maintain a grade of 90 or above in Regents American History 11. Teacher recommendation is also required for Public Affairs. Students may take these courses for high school credit and not college.

ECONOMICS 12 (Regents) (NCAA approved)
20 Weeks – ½ HS Credit
Grade Levels: 12
All students will take one semester of Economics and one semester of Participatory Government. There will be Regents and College Level sections Economics and a Regents and College Level section of Participatory Government.

ECONOMICS 12 (College Level) (NCAA approved)
SU: ECN 203 PROJECT ADVANCE ECONOMICS (3 Syracuse University Credits, *tuition cost required*)
20 Weeks – ½ HS Credit
Grade Levels: 12
This course aligns with ECN 203 which is offered to all incoming freshman as a liberal arts requirement at Syracuse University. The course, ECN 203, is an introduction to mainstream economic thought. The course will introduce students to ideas that form the foundation of modern Neoclassical economic thought, and use that foundation to examine current issues facing individuals and society today. In order to receive college credit through Syracuse students will have to pay the SUPA registration fee. They will receive 3 Syracuse Credits which can also transfer to other colleges throughout the country. Students also need to provide their own textbook for the course which they can purchased through the Syracuse University bookstore or online.

GENOCIDE IN THE 20th CENTURY (NCAA approved)
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
Through guest speakers, readings, research projects, films and discussion, students will examine the tragic acts of genocide in this time period. While the main focus will be the Holocaust, other infamous topics, such as The Armenian genocide, Forced Famine in Ukraine, Cambodian genocide, Ethnic Cleansing in Yugoslavia and genocide in Rwanda will also be examined.

GLOBAL HISTORY 9 (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9
The study of the eight main units of Global History and Geography: Ancient World, Exchange and Encounter, Interaction, Global Age, Revolution, Crisis and Achievement, 20th Century and Global Connections through the five New York State Learning Standards with a content focus of the Afro-Asian world. Particular attention is given to reading, note-taking skills, essay writing and the interpretation of documentary sources. There is a cumulative departmental final given to all students at the end of the course that is similar in format to the New York State Regents examination in Global History and Geography. The content for this course is needed for the Global History and Geography Regents exam given at the conclusion of Global History 10.

GLOBAL HISTORY 10 (Regents) (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10
All students are required to pass the Regents Exam in Global History and Geography offered at the end of Grade 10 unless eligible for the Regents Competency Exam. The study of the eight main units of Global History and Geography: Ancient World, Exchange and Encounter, Interaction, Global Age, Revolution, Crisis and Achievement, 20th Century and Global Connections through the five New York State Learning Standards with a content focus of Western Civilization and Latin America. Particular attention is given to reading, note-taking skills, essay writing and the interpretation of documentary sources.
PREREQUISITE: Successful completion of Global History 9

PARTICIPATION IN GOVERNMENT 12 (NCAA approved)
20 Weeks – ½ HS Credit
Grade Levels: 12
This course is designed to encourage students to participate in school, local community, national and international issues, as informed citizens. Students will be involved in analyzing controversial issue through research, interviews, speakers, and readings from a variety of sources. Teachers will use various formats in class such as debates, class discussions, mock trials and student oral presentations. Students will also work on independent research projects.

PSYCHOLOGY (NCAA approved)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Psychology is a half-year elective designed to introduce students to basic behaviors of the brain, individual behavior and why an individual thinks, feels and reacts to certain stimuli. Major emphases will be placed on research methods, stages in childhood adolescence, how the brain works, altered states of consciousness, psychological testing and psychological disorders.

PUBLIC AFFAIRS (College Level) (NCAA approved)
BCC: SOS 111 CFI 30835 PUBLIC POLICY (3 BCC Credits)
20 Weeks – ½ HS Credit
Grade Levels: 12
The College Level Participation in Government is offered through BCC under the designation of public policy. In order to take the BCC course a student must show academic ability and maturity to handle the course work and meet the following requirements: 1) An 85 average in AP World History or a 94 average in their 11th grade American History course. 2) Teacher recommendation 3) final acceptance by the instructor and the 11th grade teacher of record.

SOCIOLOGY (NCAA approved)
20 Weeks – ½ HS Credit
Grade Levels: 10, 11, 12
Sociology is a half-year elective designed to examine how individuals, groups and institutions interact to make up human societies. This course will introduce students to sociological perspectives, culture, social structures and social inequality. Attention will also be given to examining people and the roles they play in society, both as individuals and groups.

THE ROOTS OF ROCK AND ROLL
20 Weeks – ½ HS Credit
Grade Levels: 11, 12
This course will be a junior/senior elective that will trace the history of Rock and Roll music from its rise as a blending of White and African-American traditions within the youth-oriented culture of Post-World War II America to its subsequent diversification and internationalization. This history will be viewed in the context of political, historical, demographic, cultural, and technological forces at work in the modern and postmodern world. Topics include: The roots of rock, the rise of youth culture, Vietnam and the age of protest, diversification and fusion, the effects of technology on culture, and the ever-changing scope of popular music as a mirror of our social, political, and economic agenda.

WORLD HISTORY 10 (Enriched)
40 Weeks – 1 HS Credit
Grade Levels: 10
This course will offer an advanced level option for students looking to challenge themselves and access a more in-depth world history curriculum. This class introduces students to the cultural, economic, political and social developments that played a fundamental role in shaping the world in which we live. Lecture, reading, discussion, project based learning and primary and secondary source material will be used to develop an understanding of world history. At the conclusion of the course, students will be required to take the Regents examination in Global History in June. Global History 10 Enriched will receive a course weighting of 1.10 and will also serve as a preparatory class for SUNY Broome U.S. History in 11th grade.
PREREQUISITES: Global History 9 with 95 or greater average, recommendation of teacher, class participation, demonstrated an interest in Social Studies, excellent attendance and acceptance by the Department Chair and Course Instructor.

Careers related to Social Studies

Arbitrator
Economist
Editor
Judge
Law Clerk
Lawyer
Market Analyst
Museum Guide
Official
Policeman
Political Scientist
Politician
Retailer
Social Worker
Teacher
Travel Bureau
Wholesale

TECHNOLOGY DEPARTMENT COURSES

ADVANCED FURNITURE
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course is for those students who have already taken the basic Woodworking class as a prerequisite. Individual furniture projects will be created mostly from available hardwoods. Projects may include end tables, lamps, desks, stools and chairs. Advanced machining, finishing and joinery will be taught.
PREREQUISITE: Successful completion of Woodworking.

COMPUTER AIDED DESIGN
40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12
Computer Aided Design is an essential communicating method of our technical world. Students interested in careers in Engineering, Design, Architecture or any technical trade will benefit from a background in Computer Aided Drafting. In this course students will learn to prepare technical drawings, both at a drafting board and on a computer. Students will also create 3-D objects utilizing the 3-D printer. Course activities will be many and varied and students will learn to make several types of drawings used in industry and business. Some activities will involve making the objects that students draw. Course may also include a field trip to a local industry or architectural design firm using CAD. However, the majority of the course work will be done on a computer. Computer operated drawings will be completed in areas of mechanical, 3-D, architecture and landscape utilizing the latest AutoCAD software.

DESIGN AND DRAWING FOR PRODUCTION
20 Weeks – ½ HS Credit or 40 Weeks - 1 HS Credit
Grade Levels: 9, 10, 11, 12
This course can be used to fulfill the Art or Music graduation requirement. Students will design, draw and construct within pertinent areas of technology. Units will cover topics ranging from aerospace technology to complex energy systems. Popular units may include but are not limited to: Rocket design and construction, mechanical drawing, dragster design and construction, solar cooker design and construction, hydroponic systems and residential structure design and construction. Heavy emphasis is placed upon drawing & design, problem solving and implementation of concepts learned. The use of some machines and hand tools will be used to complete and enhance hands on projects.

ENVIRONMENTAL SURVIVAL
20 Weeks – ½ HS Credit
In this class, students will study how to survive in our ever-changing environment. With an emphasis on the outdoors, this class will teach students how to identify various life-sustaining elements of nature and to appreciate their surroundings. Stress will be placed on humanity's impact on our ecosystems. Students will examine the first-hand observations and experiences of survivalists and nature writers. This class will also provide students with hands-on experiences such as tracking game; growing, gathering and storing food; making candles and soap; building basic shelters.
PREREQUISITES: Successful completion of Living Environment Biology, outdoor clothing, and footwear.

RESIDENTIAL CONSTRUCTION
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course is a hands-on introduction to Residential Construction. This course is especially well suited to those students interested in careers or further training in the building trades and related fields. Students will learn basic skills in residential carpentry, residential wiring, plumbing, roofing, drywall, siding, etc. Hands on projects are worked on daily. The class will build a storage building outside on the school property and will construct full size mock-ups. Knowledge gained in this course can be applied to all building trades, home maintenance and service occupations as well as careers in sales of building materials, supplies, and equipment. Students who are considering any career involving electricity or electronics will also find this course helpful and practical.

ROBOTICS
40 Weeks – 1 HS Credit
Grade Levels: 10, 11, 12
This curriculum leverages the "coolness" of robotics, and the excitement of head to head competition to inspire and engage students. Students will walk through the design process and build mobile robots to play several sport-like games. During this process they will learn key STEAM principles, and robotics concepts. At the culmination of this class, they will compete head-to-head against their peers in the classroom, and a local robotics competition against other local high schools sponsored by the Raymond Corporation in Greene, NY. This modular and project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate, and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. Extension activities in mechanical, electrical and systems engineering will be used to reinforce concepts and their applications to beyond robotics.
The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals. No prior robotics experience is required. Beginners are able to advance sequentially through the units to gradually increase their knowledge and skill level. However, you must be at least **a sophomore** to take the course.

TRANSPORTATION SYSTEMS
40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12
In this class students will study land, water, air, and space transportation systems in an integrated STEAM curriculum. The past, present and future of vehicular travel will be explored through an engineering lens. Students will research, design, and create land, water, air, and space vehicles to complete in student lead competitions and engineering challenges. Past projects include: Cardboard Boat Regatta, Tug of War Competition, Solid Fuel Rockets, Electric Powered Drag Race Cars, Delta Dart Airplanes, etc. Students will gain hands-on experience with small engines through the departments Outdoor Power Equipment Repair Program. Students will also gain hands-on experience repairing and modifying electric vehicles through the Electrathon Competition, an interscholastic competition of efficiency at Oswego Motor Speedway!

WOODWORKING
20 Weeks – ½ HS Credit
Grade Levels: 9, 10, 11, 12
This course is intended as a foundation for all other Technology courses as well as an excellent general Technology course for students not seeking a Technology sequence. In this course, students will make several woodworking projects with various available hardwoods. In so doing, students will learn to operate every machine tool in the Technology Department safely and effectively. Activities will include the use of lathes, planers, jointers, shapers and table saws as well as many hand tools. At the end of the course, students will possess an excellent basic knowledge of materials and the process used to work them. Students interested in any technical career will benefit from this course.

Careers related to Technology

Aeronautical Engineer
Airplane Mechanic
Assembler
Auto Mechanic
Cabinetmaker
Carpenter
Civil Engineer
Contractor
Draftsman
Electrician
Factory Foremen
Industrial Chemist
Mason
Mechanical Engineer
Painter
Software Engineer
Toolmaker
Welder

WORLD LANGUAGES DEPARTMENT COURSES

FRENCH I (NCAA approved)
40 Weeks – 1 HS Credit
You will learn to use French in simple conversations and increase your ability to understand spoken French. You will continue to build French reading and writing abilities. French culture is explored through readings, songs, speakers, internet and current events. Your grade is based on your class work, tests, projects, oral work, and homework. Open to Grades 9-12.

FRENCH II (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9
You will learn to express yourself at a more advanced level in writing and speaking. You will learn more vocabulary and grammar structures to improve your ability to comprehend and communicate in French. Culture is explored through readings, songs, speakers, internet and current events. Your grade is based on class work, tests, projects, oral work, and homework.
PREREQUISITE: Successful completion of MS French I or HS Level 1 credit.

FRENCH III (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10
You will learn to use the four skills of language: reading, writing, speaking and listening at a more advanced level. You will prepare for and take a final exam for NYS Regents credit in French. Culture is explored through readings, songs, speakers, internet and current events. Your grade is based on tests, projects, oral work, homework, and the final exam.
PREREQUISITE: Successful completion of French II.

FRENCH IV (College Level) (NCAA approved)
SUNY Albany: AFRE221Y INTERMEDIATE FRENCH I (4 SUNY Albany Credits, tuition cost required)
40 Weeks – 1 HS Credit
Grade Levels: 11
In this course you will continue at a more advanced level to build and expand your vocabulary and control of grammar. This will allow you to better understand, speak, read and write French. Culture will be explored through readings, internet, films, songs and speakers. Your grade will be determined by tests, quizzes, projects, essays, participation and homework.
PREREQUISITES: Successful completion of French III, and teacher recommendation.

FRENCH V (College Level) (NCAA approved)
SUNY Albany: AFRE222Y INTERMEDIATE FRENCH II (4 SUNY Albany Credits, tuition cost required)
40 Weeks – 1 HS Credit
Grade Levels: 12
In this course you will continue at a more advanced level to build and expand your vocabulary and control of grammar to allow you to better understand, speak, read and write French. Culture will be explored through readings, internet, films, songs and speakers. Your grade will be determined by tests, quizzes, projects, essays, participation and homework.
PREREQUISITES: Successful completion of French IV, and teacher recommendation.

SPANISH I (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9, 10, 11, 12
In this course, you will continue to learn to speak, read, and write, in Spanish. In addition, you will learn about Spanish speakers and their cultures. We will review grammar and vocabulary using many foreign language websites. A project will be completed using the latest tools technology has to offer. Grade is based on your tests, quizzes class participation, projects, and homework.

SPANISH II (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 9
You will use the four major areas of the language: Listening, reading writing, speaking to a greater extent. New vocabulary topics will be introduced. In depth grammar topics will be covered. Your grade is based upon test grades, quizzes, projects, and class participation.
PREREQUISITE: Successful completion of MS Spanish I or HS Level 1 credit.

SPANISH III (NCAA approved)
40 Weeks – 1 HS Credit
Grade Levels: 10
You will use the four major areas of language: reading, writing, listening and speaking to a greater extent. Your grade is based upon test grades, quizzes, projects, and class participation. Passing this course and the final exam meet the requirements needed for an Advanced Regents Diploma.
PREREQUISITE: Successful completion of Spanish II.

SPANISH IV (College Level) (NCAA approved)
SUNY Albany: ASPN 200 INTERMEDIATE SPANISH I (4 SUNY Albany Credits, tuition cost required)
40 Weeks – 1 HS Credit
Grade Levels: 11
This is an intermediate college level course. In this course you will continue at a more advanced level to build and expand your vocabulary and control of grammar in order to allow you to better understand, speak, read and write Spanish. Culture will be explored through readings, internet, films, songs and speakers. Your grade will be determined by tests, quizzes, projects, essays, participation and homework.
PREREQUISITES: Two of the following criteria must be met: A 90 average or higher in Spanish III, a score of 85 or higher on the Spanish III final exam and Teacher Recommendation.

SPANISH V (College Level) (NCAA approved)
SUNY Albany: ASPN 201 INTERMEDIATE SPANISH II (4 SUNY Albany Credits, tuition cost required)
40 Weeks – 1 HS Credit
Grade Levels: 12
This is a continuation of the intermediate level college course. All grammar previously learned is reviewed and new culture is presented. Culture will be explored through readings, internet, films, songs and speakers. Cultural differences are discussed and self-expression is highly important. Students will be able to pursue the NYS Seal of Biliteracy if desired.
PREREQUISITES: Successful completion of Spanish IV, and teacher recommendation.

SPANISH FOR THE PROFESSIONS
40 Weeks – 1 HS Credit
Grade Levels: 10, 11, 12
This is an intermediate high school level Spanish course. This course will focus on vocabulary for the professional workplace. Areas of concentration will include business, law enforcement, and medical professions. This course may serve as a preparatory course for ASPN (Spanish IV College Level). Your grade is based upon test grades, quizzes, projects, and class participation.
PREREQUISITE: Successful completion of Spanish III, or currently enrolled in Spanish III.

Careers related to Languages

Customs inspector
Exporter
Fashion Buyer
Flight Attendant
Hotel Clerk
Immigration Official
Importer
International Banker
International Lawyer
Interpreter
Language Librarian
Language Teacher
Missionary
Tour Conductor
Translator
Travel Bureau

CAREER & TECHNICAL PROGRAMS

All courses 2 Years, 3 Credits per year – Grades 11 &12

ADVANCED COURSES

ADVANCED MANUFACTURING I & II
Students will participate in all phases of the production process, from inception to shipping. They will learn quality and inventory control, materials handling and storage, sales forecasting and purchasing. Hands-on experience in manufacturing including, 3-D printer operation, Coding, Product Development, and practical experience in local Manufacturing facilities.
Career possibilities: Tool and die Maker, Quality control Inspector, systems engineer and manufacturing engineer.

AUTO TECHNOLOGY I & II
Teachers the skills necessary to troubleshoot and repair the complex systems of today's high-tech automobiles. Students learn to diagnose, adjust, and repair engines, power trains, steering/suspension systems, brakes and electrical components. Students are trained to take the ASE automotive certification. **Career possibilities:** Automotive technician, drivability technician, service writer, automotive accessory installer, and wheel alignment technician.

CRIMINAL JUSTICE I & II
Prepares students in the basics of law enforcement, security services and corrections. Students learn all aspects of the criminal justice system, with hands-on experience in criminal investigation, forensics, penal law, report writing, corrections and security. Students can also obtain certification in CPR, AED and first aid. Students are encouraged to continue their education at the post-secondary level. Upon successful completion of the course, students are eligible to take the New York state security guard eight-hour pre-assignment course. **Career possibilities:** Crime scene investigator, corrections officer, law enforcement, private security, security guard, and dispatcher.

GRAPHICS AND GAMING DESIGN I & II
This is a 2-year advanced level program. Topics included are: Information communication and design, 2D & 3D design and imaging, identity design (branding), internet basics, programing, markup, scripting, interactive website design, motion graphics and multimedia, marketing.

HEALTH SCIENCE I & II
Teaches students the skill necessary to provide care for individuals who are ill, aging or disabled. Students learn to observe, position, bathe, dress, exercise, transport, feed, document and take the vital signs of patients in assisted living facilities. They also learn about careers in the health care field, CPR, and basic first aid. Practical work experience is provided in local residential and school settings. Upon successful completion of the program, students are also eligible to take the New York state Nurse Assistant Certification exam and be certified as a home health aide. **Career possibilities:** Nurse assistant, emergency medical technician, registered nurse, and licensed practical nurse.

PLANT SCIENCE I & II
Students will discover how soil, water, and temperature influence plant growth, learn how to increase yield of growth cycles, and explore the impact of plant production on the local and global economy. Prepares students to either enter the workforce or continue their education at the post-secondary level.
Career possibilities: Landscaper, Green House Operator, Seed Sales, Soil and Water conservationist, Farmer.

INTERMEDIATE COURSES

ANIMAL SCIENCE I & II
Provides instruction in the care, grooming and health requirements of animals, and in operating procedures for animal care business. Students gain practical experience needed for entry-level jobs through classroom study and operation of the pet supply store, grooming shop, boarding kennel and cat/dog rescue/adoption center. **Career possibilities:** Dog groomer, Vet assistant, animal shelter employee, pet shop employee, boarding kennel manager, animal obedience trainer, and zoo employee.

AUTO BODY REPAIR I & II
Students gain practical experience in the latest techniques of auto body repair. Students learn about hand/power tools, panel and metal working, spray painting, car refinishing, detailing and pin-striping. The skills taught include repairing dents and rust, priming, sand blasting, spray painting and reconditioning of vehicles. Also taught are collision work, vehicle restoration, welding, fiberglass, glass and plastic repairs and PPG paint mixing. **Career possibilities:** Body shop manager, body shop foreman, insurance adjuster, automotive refinish technician, automotive body technician and reconditioning technician.

CARPENTRY I & II
Students gain entry level skills necessary for employment in the construction field. Student receive daily practical experience using state-of-the-art tools, supplies, equipment and machines. Instruction is provided in blueprint reading, roofing, siding, basic framing and finishing of residential homes. This is a nationally accredited course. **Career possibilities:** General carpenter, roofing and siding installer, residential house framer, construction material sales, and construction estimating.

CAD AND 3D ANIMATION I & II
Students are trained for a career in the field. Students will use the most advanced, industry-standard hardware and software to create accurate and precise architectural and engineering drawings. They also learn to create world-class images and 3D animations used in numerous high-tech design careers, including robotics, bridge building, forensics, electrical power distribution, entertainment and medicine. **Career possibilities:** Architect, Multimedia artist, mechanical drafter, mechanical engineer, architectural drafter and video game designer.

COSMETOLOGY I & II
Students learn the theory and provides practical experience in all areas of the industry. Students, in the state-of-art classrooms, learn styling, permanent waving, cutting, manicuring, make-overs, skin care, and hair coloring techniques. Upon successful completion of the 1,000-hour state requirement and completion of the program, students are eligible to take the New York State licensing examination. **Career possibilities:** Platform artist, hair stylist, colorist, massage therapist, and nail technician.

CULINARY ARTS I & II
The program teaches students the phase of food service operations. Students develop skills through actual work experiences in a state-of-the-art kitchen. They will learn to prepare sauces, soups, entrees, side dishes, salads, desserts and much more. Upon completion of the course, students receive the ServSafe National credential. **Career possibilities:** Executive chef, pastry chef, delicatessen employee, line cook, short order cook, personal chef.

ELECTRICITY I & II
Instructs students in the installation testing, repair, and servicing of electrical equipment, as well as the basic theory and fundamentals of electrical systems in residential, commercial and industrial settings. Students learn about electrical safety and construction codes, circuits and wiring, motor controls, security and lighting systems, current measurement, data cabling, transformers, diagrams, schematics, planning and estimating. This is a nationally accredited course through NCCR. **Career possibilities:** Lineman, industrial electrician, electrical engineer, electronics technician, building maintenance technician.

ENGINE MECHANICS I & II
Provides students training in both small and large engine diagnostics and repair. Students will learn automotive skills including: chassis service, tire and wheel service, lubrication systems, brakes and troubleshooting strategies. Upon completion of the course, students take the EETC Four-Stroke Engine Certification**. Career possibilities:** Automotive tire service/lube technician, automotive technician, parts service desk, small engine technician, and motorcycle mechanic.

HEAVY EQUIPMENT REPAIR & OPERATION I & II
Provides students the opportunity to learn the maintenance, operation, testing, and repair of heavy equipment used in construction and agriculture. Students learn to operate, maintain, and overhaul tractors, backhoes, bulldozers, and trucks. **Career possibilities:** Farm worker, construction laborer, machine operator, and truck and equipment mechanic.

MASONRY I & II
Teaches students the proper installation of a variety of masonry materials used in the construction business. Students learn to use a builder's level, prepare mortar, cut and shape masonry materials, set steel sectional scaffolding, construct fireplaces and arches, and build structures using brick, block, stone, tile, and concrete. They also learn power equipment, job estimates, job site preparation and safety. This program is a nationally accredited course through NCCER. **Career possibilities:** Bricklayer, mason tender, construction laborer, tile mason, stone mason.

VIDEO PRODUCTION I & II
Teaches students all aspects of television and film production using state-of-the-art equipment. Students learn camera care and usage, story-boarding, editing, special effects and script-writing. The program emphasizes hands-on experience in producing documentaries, commercials, and promotional videos as well as news, radio and sports programming. Students also work on Sports Week, a weekly cable television broadcast covering sports highlights from area schools. **Career possibilities:** Director, reporter, editor, videographer, and production assistant.

WELDING I & II
Teaches students the process of welding, cutting, grinding, and custom fabrication. Students work with steel, stainless steel, aluminum, and other metals commonly found in modern industry. Daily hands-on training reinforces skills that enable students to reach entry-level proficiency in stick welding, MIG, TIG welding, flame-cutting and plasma cutting. Shop math and blueprint reading are taught. Safety practices and craftsmanship are priorities, and creative projects are encouraged. **Career possibilities:** Arc and combination welder, welder, ironworker, boilermaker, and millwright.

INTRODUCTORY COURSES

AUTO BODY CAREERS I & II
A project-based course that provides students with the basic knowledge needed in the auto body industry. Students learn about panel and metal working, spray painting and detailing.
Career possibilities: Automotive detailer, auto body refinishing assistant, and auto body repair assistant.

BUILDING TRADES/PLUMBING CAREERS I & II
Serves as an introduction to the building trades industry; teaching students a wide range of skills that can be used in the **carpentry**, masonry, electricity and plumbing trades. **Career possibilities:** Building maintenance and repair person, carpenter's helper, mason tender.

BUSINESS MANAGEMENT & COMPUTER CAREERS I & II
Students learn to run their own business while using Microsoft Office Suite and Adobe software. Students participate in a class-run desktop publishing and graphics business. They learn marketing, advertising, and how to design their own websites. **Career possibilities:** Entrepreneur, secretary, customer service representative, senior typist, and office assistant.

GENERAL AUTOMOTIVE SERVICES I & II
Serves as an introduction to the automotive trades. The course is a project-based course that gives students the opportunity to use a variety of skills to complete automotive projects. **Career possibilities:** Detailer, lube technician, tire technician, NYS vehicle inspector, preventative maintenance technician, diesel/heavy equipment assistant, and welding assistant.

HOSPITALITY INDUSTRY CAREERS I & II
Students are provided an introduction to the culinary industry. Student learn the soft skills required to be successful in food related jobs and gain valuable cooking experience. **Career possibilities:** Food server, food preparation worker, counter attendant, customer service agent, event planner or reservationist.