



COURSE SELECTION GUIDE

2018-2019

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Revised 12/17

To Horseheads High School Students and Parents:

This curriculum guide has been designed to help both students and parents to plan for next year's academic schedule and beyond. The guide reflects information on courses we will offer during the 2018-2019 school year.

Prior to making course selections, it is important that both parents and students understand the graduation requirements for Horseheads High School and the courses needed for the Regents and Advanced Regents diploma. Our school counselors are available to help clarify graduation requirements. Additionally, you should carefully read the course description to be sure that the classes selected will meet your individual academic needs. Once again our guidance department can be helpful in clarifying any questions you may have about particular courses.

I encourage each student to plan carefully for the upcoming year. The master schedule reflects the courses requested by students and, once developed, cannot be changed. We are unable to honor specific requests for individual teachers and, once students have been assigned to particular courses and deadlines for changes have passed, students will not be allowed to change classes.

Through the scheduling process, course offerings may change for a variety of reasons. For example, state requirements, staffing, budget concerns, and the number of student requests can all influence the final course offerings.

In conclusion, please take time to thoroughly review and select your courses. With approximately thirteen hundred students at Horseheads High School, it is important that parents and students make the most out of this process. To the best of our ability we will provide a schedule that meets the student's academic goals and allows you to take advantage of the diverse programs we are able to offer. Please contact your child's school counselor if you have any questions.

Karen L. Donahue
Principal

The Horseheads Central School District offers educational programs without regard to gender, race, color, national origin, or disability. Inquiries regarding this policy may be made to Megan Collins, Title IX/DASA Coordinator and Co-Civil Rights Compliance Officer; Anthony Gill, Co-Civil Rights Compliance Officer; or Kim Williams, Section 504 Coordinator, Horseheads Central School District, One Raider Lane, Horseheads, NY 14845, (607) 739-5601.

The Dignity Act Coordinator (DAC) for Horseheads High School is Mike McCawley. Complaints regarding discrimination, harassment, or bullying of any student should be referred to Mr. McCawley 739-5601, ext. 1603. The Dignity Act Coordinator for the Horseheads Central School District is Megan Collins and she may be reached at One Raider Lane, Horseheads, NY 14845, 607-739-5601, x4211.

GENERAL INFORMATION

PLEASE read the next several pages of information carefully. This section covers general topics with regard to scheduling, graduation requirements, and guidance information. You should have an understanding of these policies and concepts before you begin to select courses for your schedule for the next school year.

Each student is assigned to a specific area from the time he or she arrives at school through the end of the school day. The assignments include classes, homeroom, lunch, and activity periods.

LUNCH

Each student is scheduled automatically for one lunch period at the High School. (Students may NOT leave school during the lunch/activity period.)

A student who wishes to give up his or her lunch/activity period in order to take a class must submit a request form signed by the parent to his or her school counselor.

EARLY RELEASE FROM SCHOOL

Horseheads High School offers a wide selection of courses and encourages students to take full advantage of course offerings and, therefore, does not encourage early release from school.

However, seniors may petition for an early release from school for employment or alternate learning opportunities. Requests will be honored only if approved by the parent and principal and are conditional upon a student's individual schedule. Seniors who need to be on school grounds after school hours for activities such as sports practices, to attend meetings as club officers, etc. are not eligible for an early release. Seniors who request this privilege must follow the part day pass procedure and must be able to complete the courses required for graduation.

Deadlines for early release requests are: 1st semester - July 31st; 2nd semester – last day of classes prior to the January Regents Exam period.

MINIMUM NUMBER OF COURSES

As there are no studyhalls at Horseheads High School, every student must have a full schedule. The only exception is for seniors who petition for an early release.

COURSE WEIGHTING

Course weighting is a system of establishing final weighted class rank for each graduating senior.

Course weighting is NOT reflected in a student's individual course grades in determining eligibility for honor roll nor is it used in computing a student's cumulative average. Course weighting rewards students for successfully completing the more rigorous ACE and AP courses specifically identified in this catalog.

RESCHEDULING OF COURSES FAILED

Every attempt should be made on a student's part to successfully pass each course and seek out resources for help when they have difficulty. A student who fails a course which is required for graduation must repeat the same course or comparable course to meet the requirement. Courses may be repeated through an area summer school program, if available, or during the following academic semester ONLY if there is a space available in the class (es). We encourage completion of a failed course in a summer school program if possible in order to avoid scheduling issues in the student's remaining high school years. If a student does not meet the necessary requirements of each grade level (see promotion guidelines), he or she will be retained in the current grade level until those requirements are met.

GENERAL INFORMATION

PROMOTION GUIDELINES

In order to achieve SOPHOMORE status, a student must earn four (4) credits.

In order to achieve JUNIOR status, a student must earn nine (9) credits.

In order to achieve SENIOR status, a student must be in a position to graduate by August of the current school year.

SCHEDULE CHANGES/NO DROP POLICY

Annually, students meet with their counselor to select courses for the following school year. Course selection is based on courses required for graduation, student interests, career goals, and post-secondary plans. A course selection sheet is then mailed home to parents. Factors such as the student's past achievement, teacher recommendations, and the availability of classes have an impact on student schedules.

Deadlines for requesting to change a class are: 1st semester – July 31st; 2nd semester – last day of classes prior to the January Regents Exam period.

Students will not be able to drop any courses beyond the deadlines above (unless there is an error, in which case the student should see his/her counselor). Therefore, careful consideration of course selection is necessary. If problems arise, the student and parent need to work together with the teacher and counselor toward a resolution. If a student is misplaced in a course, they may petition for a level change before the end of the first marking period. Level changes are only for courses within the same curricular area and are subject to course availability and principal approval.

GUIDANCE SERVICES

Counselors meet individually and in groups with their students throughout the high school years. Students are encouraged to initiate additional contacts with their counselor on an as-needed basis. A comprehensive four-year guidance program is in place which offers a holistic approach to student services. The program includes academic planning and advising, career exploration and planning, college and future planning, and personal counseling.

SPECIAL PROGRAMS

Career and Technical Education

Horseheads High School offers occupational education for students to prepare for employment or further technical and occupational training. There are successful students in the GST BOCES CTE programs at all ability levels.

The CTE courses at BOCES are designed to meet a broad range of interests and abilities. The aims of these courses are:

- To develop a positive work ethic.
- To develop decision-making and problem-solving skills.
- To explore a student's ability and interest in an occupation.
- To acquire skills for employment.
- To promote appreciation for the world of work.
- To provide practical experience while learning.
- To provide high school credit.

Students enrolled in a CTE program attend the BOCES campus for several periods of each school day. Students then take academic and other required subjects at Horseheads High School during the remainder of the day. Transportation to the BOCES campus is provided by the Horseheads Central School District. Students are prohibited from driving their personal vehicles to BOCES.

New Visions Programs for Seniors

- Education & Human Services
- Innovation, Leadership, & Business
- Health Careers

These one year programs offered through GST BOCES allow seniors to spend half of the school day at an actual work site exploring a variety of program specific careers while working toward senior academic credit.

New Visions students will have classroom instruction supplemented with local on-site rotations. Classes meet each school day either in the morning or the afternoon. New Visions integrates ACE English, ACE FYEX, Economics/Participation in Government, and career exploration for a total of 4 credits (1 credit English; 1 credit First Year Experience; ½ credit Economics; ½ credit Participation in Government; and 1 credit in Occupational Education).

New Visions students develop career plans and integrated projects based on knowledge acquired and documented through experiential learning. They learn to use proper terminology, relate academic subjects to professions studied, and conduct themselves in the safe, professional manner expected in their chosen field.

Space is limited and the application process is competitive. In order to apply students need to have the following:

- All graduation requirements met by the end of the junior year except for senior English, Economics, and Participation in Government.
- A grade point average of 85% or higher.
- A complete New Visions application and TEC Center application.
- Three years of Regents math and science.
- Recommendations from three academic teachers (or two teachers and one employer or volunteer supervisor).
- An essay that describes personal, academic, and career goals as well as strengths and challenges.
- The ability to provide their own transportation to the various sites.
- Excellent attendance records of 90% or better (reviewed on an individual basis).
- A personal interview to aid in the selection process.

Interested students should see their High School Counselor for details.

SPECIAL PROGRAMS

Corning Community College Dual Enrollment Program (ACE)

Through an agreement between Horseheads High School and Corning Community College, students may enter into a dual enrollment arrangement. That is, students may take certain courses at the High School, pay a tuition fee to Corning Community College, and receive both high school and college credit. Please note that students who elect to enroll in ACE courses at the High School will be *automatically* enrolled in the course for college credit through Corning Community College. Students may elect to enroll in an ACE level course for high school credit only and not receive college credit. It is vital for students and parents to be aware of and to follow the proper procedure at the beginning of each semester to indicate to the teacher and college that they do not wish to pay for college credit. If the college does not receive proper notification, parents may still be responsible for course tuition.

Advanced Placement Courses (AP)

AP courses are college level courses which follow a nationally standardized curriculum developed by the College Board. Students who enroll in AP courses are expected to take the corresponding AP examination in May. Depending on the AP exam score, the college in which the student chooses to attend may grant college credits or advanced placement to the student. AP courses are available to all students who meet the academic criteria. See your school counselor for more information about this program.

Minimum Graduation Requirements

Class of 2018, 2019, 2020, 2021

(Determined when a student first enters ninth grade)

Course Requirements:

Local Diploma

4 Credits English
 4 Credits Social Studies
 3 Credits Mathematics
 3 Credits Science**
 1 Credit Fine Arts
 1 Credit Health
 3 Credits Physical Education
 1 Credit Foreign Language
 sequence/elective credits

Total: 23 Credits

Regents Diploma

4 Credits English
 4 Credits Social Studies
 3 Credits Mathematics
 3 Credits Science**
 1 Credit Fine Arts
 1 Credit Health
 3 Credits Physical Education
 1 Credit Foreign Language
 sequence/elective credits

Total: 23 Credits

Advanced Regents Diploma

4 Credits English
 4 Credits Social Studies
 3 Credits Mathematics
 3 Credits Science**
 1 Credit Fine Arts
 1 Credit Health
 3 Credits Physical Education
 *3 Credits Foreign Language
 sequence/elective credits

Total: 23 Credits

*To earn the advanced designation, the student must complete one of the following:

- (a) a language other than English (total of 3 credits)
- (b) 5 units of CTE or the arts to waive the foreign language requirement

**Must include a minimum of (1) life science and (1) physical science

Academic Intervention Services (AIS) is a state-mandated program intended to assist students who fall below the state learning standards. Identified students are required by New York State to participate in AIS.

COMPETENCY REQUIREMENTS
Class of 2018, 2019, 2020, 2021
 (Subject to change based on NYS Board of Regents Approval)

Horseheads High School’s current policy is that the Regents Examination attached to each course is the final exam for that course. Therefore, all students will sit for the minimum of five (5) exams required for graduation: English Language Arts, Algebra, Global History, US History, and Science. The state has expanded the pathways for students to graduate in the event that a student is not successful on one of the two Social Studies Exams (Global or US History). Counselors will work individually with students in this situation to decide what pathway is appropriate to meet the individual graduation requirements.

Local Diploma**

Required Exams

English Lang Arts Regents Exam
 Passing score of 55-64**

Algebra 1 Regents Exams
 Passing score of 55-64**

Global His/Geo Regents Exam
 Passing score of 55-64**

US History Regents Exam
 Passing score of 55-64**

Science Regents Exam
 Passing score of 55-64**

**Only available for students with an IEP or 504 Plan who are Safety Net eligible

Regents Diploma

Required Exams

English Lang Arts Regents Exam
 Passing score of 65 & above

Algebra 1 Regents Exam
 Passing score of 65 & above

Global His/Geo Regents Exam
 Passing score of 65 & above

US History Regents Exam
 Passing score of 65 & above

Science Regents Exam
 Passing score of 65 & above

Advanced Regents Diploma

Required Exams

English Lang Arts Regents Exam
 Passing score of 65 & above

Algebra 1 Regents Exam
 Passing score of 65 & above

Geo R Regents Exam
 Passing score of 65 & above

Algebra 2 Regents Exam
 Passing score of 65 & above

Global His/Geo Regents Exam
 Passing score of 65 & above

US History Regents Exam
 Passing score of 65 & above

Two Science Regents Exams
 Passing score of 65 & above on both a physical and life science exam.

***Foreign Language Exam**
 Passing score of 65 & above

*Students acquiring 5 specific units of credit in CTE, Art, Business, Technology or FACS may be exempt



Agricultural & Natural Sciences

Pathway to...

This diverse Career Pathway prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities & services, including food, fiber, wood products, natural resources, horticulture, & other plant and animal products. It includes related professional, technical, & educational services.

SKILLS & INTERESTS:

<ul style="list-style-type: none"> • Leadership/Initiative • Teamwork • Communication Skills 	<ul style="list-style-type: none"> • Analytical Skills • Working with Data • Reading Comprehension 	<ul style="list-style-type: none"> • Critical Thinking • Problem Solving • Math, Science, & Technical Skills
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Potential Career Clusters & Job Titles

Food Products	Plant Systems	Animal Systems	Natural Resources	Environmental Services	Agri-Business Systems
Food Scientist	Plant Breeder & Geneticist	Animal Geneticist	Cartographer	Pollution Prevention & Control Manager	International Agri-Marketing Specialist
Bacteriologist	Soil & Water Specialist	Animal Nutritionist	Wildlife Manager	Environmental Sampling Scientist/Technician	Agricultural Loan Officer
Microbiologist	Certified Crop Advisor	Animal Scientist	Park Managers	Health & Safety Sanitarian	Agricultural Commodity Broker
Food & Drug Inspector	Botanist	Poultry Manager	Water Monitoring Technician	Hazardous Materials Handler	Farm/Ranch Manager
Toxicologist	Tree Surgeon	Embryo Technologist	Natural History Interpreter	Water Environment Manager	Agricultural Economist
Biochemist/ Nutritionist/ Dietician	Education & Extension Specialist	Veterinarian/ Vet Technician	Fish & Game Officer	Toxicologist	Livestock Buyer/Seller
Agricultural Sales	Golf Course Superintendent	Feed Sales Representative	Forest Manager	Solid Waste Disposer/Recycler	Feed/Farm Supply Store
MeatCutter/ Grader	Greenhouse Manager	Livestock Producer	Geologist	Environmental Compliance Assurance Manager	Agricultural Salesperson
Food & Fiber Engineer	Forest Geneticist	Equine Manager	Fish Hatchery Manager	Water Quality Manager	Animal Health Products Distributor
Produce Buyer	Bioinformatics Specialist	Pet Shop Owner	Commercial Fisherman		
Meat Processor	Farmer/ Rancher	Reproductive Physiologist			
Quality Control Specialist		Dairy Producer			
		USDA Inspector			



Agricultural & Natural Sciences

Pathway to...

Standard Core Graduation Requirements (Minimum)

English (4 credits)	Mathematics (3 credits)	Foreign Language (1-3cr)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (From which to create a customized pathway)

<p><u>FOOD PRODUCTS:</u></p> <ul style="list-style-type: none"> ~ACE Biology I ~ACE Biology II ~ACE Chemistry I ~ACE Chemistry II ~The Food Experience ~Food Science ~International Business ~College Computer Concepts -or- Computer Applications ~ "Excel" in Business ~Introduction to Marketing ~Business Ownership & Marketing ~ ACE Accounting I ~ACE Accounting II ~Business Law 	<p><u>ANIMAL SYSTEMS:</u></p> <ul style="list-style-type: none"> ~Forensic Science ~Marine Biology ~Zoology ~North American Wildlife ~Anatomy/Physiology ~ACE Biology I ~ACE Biology II ~ACE Chemistry I ~ACE Chemistry II ~International Business ~College Computer Concepts -or- Computer Applications ~Introduction to Marketing ~Business Ownership & Marketing ~Business Law ~Food Science GST BOCES Programs: ~Animal Science 	<p><u>ENVIRONMENTAL SERVICES:</u></p> <ul style="list-style-type: none"> ~North American Wildlife ~Astronomy/Historical Geology ~ACE Biology I ~ACE Biology II ~ACE Chemistry I ~ACE Chemistry II ~International Business ~College Computer Concepts -or- Computer Applications ~Business Law ~Transportation/Energy GST-BOCES Programs: ~Conservation
<p><u>PLANT SYSTEMS:</u></p> <ul style="list-style-type: none"> ~Marine Biology ~North American Wildlife ~ACE Biology I ~ACE Biology II ~ACE Chemistry I ~ACE Chemistry II ~International Business ~College Computer Concepts -or- Computer Applications ~Introduction to Marketing ~Business Ownership & Marketing ~ACE Accounting I ~ACE Accounting II ~Business Law GST BOCES Program: ~Conservation 	<p><u>NATURAL RESOURCES SYSTEMS:</u></p> <ul style="list-style-type: none"> ~Criminal Justice ~Forensic Science ~Zoology ~Marine Biology ~Astronomy/Historical Geology ~North American Wildlife ~ACE Biology I ~ACE Biology II ~ACE Chemistry I ~ACE Chemistry II ~Transportation/Energy GST-BOCES Programs: ~Conservation ~Criminal Justice 	<p><u>AGRI-BUSINESS SYSTEMS:</u></p> <ul style="list-style-type: none"> ~ACE Economics ~Dreamweaver ~ACE Web Page Design ~International Business ~ "Excel" in Business ~College Computer Concepts -or- Computer Applications ~Introduction to Marketing ~Business Ownership & Mktg. ~ACE Accounting I ~ACE Accounting II ~Business Law ~Communication Systems

Some Possible Community Service Suggestions/ Employment Exposure

<ul style="list-style-type: none"> ~Camp Counselor/ Lifeguard ~Chemung County 4-H ~Chemung Co. Humane Society/S.P.C.A. ~Chemung County Parks & Recreation ~Chemung County Youth Bureau ~Cornell Cooperative Extension 	<ul style="list-style-type: none"> ~Environmental Management Council ~F.F.A. ~Junior Achievement of the Twin Tiers ~Tanglewood Nature Center ~The American Red Cross ~Horseheads Youth Bureau
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Pathway to... Arts, Humanities & Architecture

Careers in the Performing Arts, Visual Arts, or certain aspects of Journalism, Broadcasting and Film involve designing, producing, exhibiting, performing, writing, and publishing multimedia content. Careers in Audio/Video Technology include manufacturing, selling, designing, installing, operating and repairing the equipment of audio/visual communication. Architectural careers tap students' creative, analytical and critical thinking skills. These careers involve designing, planning and managing the built environment.

SKILLS & INTERESTS:

<ul style="list-style-type: none"> • Leadership/Initiative • Working with People • Active Listening 	<ul style="list-style-type: none"> • Risk Taking • Effective Oral/ Written Communication • Critical Thinking Skills 	<ul style="list-style-type: none"> • Creativity • Physical Coordination • Persistence & Motivation
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Potential Career Clusters & Job Titles

Journalism, Broadcasting & Communications	Performing Arts	Architecture	Audio/Video Technology & Visual Arts
Radio & TV Announcer	Production Manager	Architect	Video Graphic Designer, Special Effects Designer & Animator
Publisher, Editor, Journalist & Reporter	Stagecraft Designer & Choreographer	Computer Aided Drafter (CAD)	Audio-Video Designer & Engineer
Station Manager	Dancer	Renderer (Traditional and Computer)	Computer Support Technician for Film, Video & DVD
Advertiser	Play Writer, Screen Writer, Screen Editor & Script Writer	Landscape Architect/Designer	Lighting Technician & Sound Board Operator
Copywriter	Director & Coach, Performer, Actor & Musician	Interior Designer	Painter, Sculptor, Print Maker & Illustrator
Creative Writer	Make-up Artist & Costume Designer		Fashion Artist
Desk Top Publisher	Composer, Conductor, & Music Instructor		Cartoonist
Film Critic	Comedian		Photographer
Film/TV Producer			Art Teacher
Novelist			Curator, Gallery Owner
Script Writer			
Technical Writer			
Web Site Designer			



Arts, Humanities & Architecture

Pathway to...

Standard Core Graduation Requirements (Minimum)

English (4 credits)	Mathematics (3 credits)	Foreign Language (1-3cr)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (From which to create a customized pathway)

JOURNALISM, BROADCASTING, & COMMUNICATIONS:

- ~Media Production
- ~Journalism
- ~Public Speaking

- ~AP Comparative Gov't/Politics

- ~ACE Web Page Design
- ~Dreamweaver
- ~Sports & Entertainment Marketing
- ~International Business
- ~Computer Applications-or-
- ~College Computer Concepts
- ~Introduction to Marketing

- ~Flash Animation
- ~Communication Systems
- ~Broadcast/Video Production

- ~Studio in Art 1 & 2
- ~Studio in Computer Design
- ~Studio in Media Arts
- ~Studio in Photography

- GST-BOCES Programs:
- ~Digital Media Arts
- ~Audio/Media Design

PERFORMING ARTS:

- ~British Literature
- ~Media Production
- ~Fantasy & Science Fiction
- ~Young Adult in Literature
- ~Creative Writing
- ~Public Speaking
- ~Introduction to Shakespeare
- ~Drama

- ~Intro to Psychology

- ~Introduction to Guitar
- ~Introduction to Piano
- ~Musical Theater Workshop
- ~Voice Class
- ~Foundations in Musicianship
- ~World Music Drumming
- ~Choir
- ~Band
- ~Orchestra

- ~Sports/Entertainment Marketing

- ~Sewing Fashions

- ~Broadcast Video Production
- ~Communication Systems

- ~Studio in Media Arts

- GST BOCES Programs:
- ~Fashion Design
- ~Cosmetology
- ~Audio/Media Design

ARCHITECTURE:

- ~Communication Systems
- ~Furniture & Cabinet Making
- ~Flash Animation
- ~DDP
- ~Production & Residential Structures
- ~ACE Graphics for Engineers
- ~ACE Engineering Orientation

- ~Studio Art 1 & 2
- ~Drawing & Painting 1
- ~Drawing & Painting 2
- ~Drawing & Painting 3
- ~Portfolio Development

- ~Studio in Computer Design

- ~Business Ownership & Marketing
- ~Business Law

- ~Interior Design II
- ~Housing & Interior Design

- ~Pre-Calculus
- ~ACE Calculus I
- ~ACE Calculus II

- GST BOCES Programs:
- ~New Visions Innovation, Leadership, & Business

AUDIO/VIDEO TECHNOLOGY & VISUAL ARTS:

- ~Studio in Art 1 & 2
- ~Drawing & Painting 1
- ~Drawing & Painting 2
- ~Drawing & Painting 3
- ~Portfolio Development
- ~Studio in Printmaking
- ~Design in Clay
- ~Studio in Crafts
- ~Studio in Computer Design
- ~Studio in Sculpture
- ~Studio in Media Arts
- ~Studio in Photography
- ~A.P. Art History

- ~Dreamweaver
- ~ACE Web Page Design

- ~Arts of the Home
- ~Interior Design II
- ~Housing & Interior Design
- ~Sewing Fashions

- ~Furniture & Cabinet Making
- ~Flash Animation
- ~DDP
- ~Communication Systems
- ~Broadcast Video Production
- ~ACE Graphics for Engineers

- GST BOCES Programs:
- ~Audio/Media Design
- ~Fashion Design
- ~Digital Media Arts

Some Possible Community Service Suggestions/ Employment Exposure

- | | | |
|-----------------------------------|--------------------------|-----------------------------------|
| ~171 Cedar Arts Center | ~Corning Museum of Glass | ~Wings of Eagles Discovery Center |
| ~Arnot Art Museum | ~Dance Academies | ~Radio, TV, Newspapers |
| ~Benjamin Patterson Inn | ~Elmira Little Theater | ~The Rockwell Museum |
| ~Chemung County Historical Museum | ~Movie Theaters | |

Pathway to... Business, Hospitality & Information Systems

This diverse Career Pathway prepares learners for a variety of careers in the areas of business, hospitality, and information systems. The **Business, Management/Administration & Financial Services** Clusters prepare learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. The **Marketing Sales and Service Career** Cluster prepares learners for careers in planning, managing, and performing marketing activities to reach organizational objectives. The **Hospitality and Tourism** Cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreational events, and travel-related services. **Information Technology** Careers are divided into four pathways: Network Systems, Information Support and Services, Programming and Software Development, and Interactive Media.

SKILLS & INTERESTS

<ul style="list-style-type: none"> • Leadership/Initiative • Teamwork • Communication Skills 	<ul style="list-style-type: none"> • Risk Taking • Working with Data • Reading Comprehension 	<ul style="list-style-type: none"> • Critical Thinking • Problem Solving • Analytical Skills
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Potential Career Clusters & Job Titles

Accounting, Financial Services, Business Mgmt. & Admin.	Information Technology, Administrative & Information Support	Marketing, Sales/Service, Hospitality/Tourism
Accountant/C.P.A.	Administrative Assistant	Advertising/ Promotions Mgr
Auditor	Computer Information Systems	Buyer/Purchasing Agent
Billing Clerk/Bookkeeper	Computer Maintenance Technician/ Computer Network Specialist	Chef/Restaurant Owner
Business Manager	Computer Programmer/ Software Specialist/Developer	Copywriter/Designer
Comptroller	Court Reporter/Stenographer	Customer Service/ Sales Representative
Corporate Trainer	Database Administrator	Gaming/Casino Mgr/Dealer/etc.
Economist	Data Entry Specialist	Hotel Manager/ Bed & Breakfast Operator
Entrepreneur/Small Bus. Owner	Help Desk Specialist	Marketing Analyst
Financial Advisor	Legal Secretary/Paralegal	Museum/Zoos/Aquariums Exhibit Developer/Animal Trainer
Human Resource Manager	Medical Transcriptionist	Public Relations Manager
Industrial Relations Director	Systems Analyst/Architect/Designer	Research/Project Manager
Loan Officers	Technical Writer	Sales Representative
Public Relations Specialist	Telecommunications Network Tech.	Tour/Adventure Guide
Sports & Entertainment Manager	Web Designer/Web Site Manager	
Stockbroker/ Brokerage Manager		

Pathway to... Business, Hospitality & Information Systems

Standard Core Graduation Requirements (Minimum)

English (4 credits)	Mathematics (3 credits)	Foreign Language (1-3cr)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (From which to create a customized pathway)

<u>ACCOUNTING, FINANCIAL SERVICES, BUSINESS MANAGEMENT & ADMINISTRATION</u>	<u>INFORMATION TECHNOLOGY, ADMINISTRATIVE & INFORMATION SUPPORT</u>	<u>MARKETING, SALES/SERVICES, HOSPITALITY/TOURISM:</u>
<ul style="list-style-type: none"> ~AP Comparative Gov't & Politics ~Dreamweaver ~ACE Web Page Design ~Sports & Entertainment Marketing ~International Business ~Career Pathways ~Career & Financial Management ~College Computer Concepts -or- Computer Applications ~Notetaking ~"Excel" in Business ~Introduction to Marketing ~Business Ownership & Marketing ~ACE Accounting I ~ACE Accounting II ~Business Law ~Math for Personal Finance ~Introduction to Psychology ~Math Courses (beyond graduation requirements) ~Life 101 ~Communication Systems GST BOCES Programs: <ul style="list-style-type: none"> ~New Visions Innovation, Leadership, & Business 	<ul style="list-style-type: none"> ~Dreamweaver ~ACE Web Page Design ~International Business ~Career Pathways ~College Computer Concepts -or- Computer Applications ~Notetaking ~"Excel" in Business ~Introduction to Marketing ~Business Ownership & Marketing ~ACE Accounting I ~ACE Accounting II ~Business Law ~Career & Financial Management ~Math Courses (beyond graduation requirements) ~Intro Computer Programming ~Introduction to Psychology ~Life 101 ~Flash Animation ~Communication Systems GST-BOCES Programs: <ul style="list-style-type: none"> ~CISCO Systems ~Digital Media Arts ~New Visions Innovation, Leadership, & Business 	<ul style="list-style-type: none"> ~Dreamweaver ~ACE Web Page Design ~Sports & Entertainment Marketing ~International Business ~Career Pathways ~Career & Financial Management ~College Computer Concepts -or- Computer Applications ~"Excel" in Business ~Introduction to Marketing ~Business Ownership & Marketing ~ACE Accounting I ~ACE Accounting II ~Business Law ~Math Courses (beyond graduation requirements) ~Introduction to Psychology ~The Food Experience ~Life 101 ~Flash Animation ~Communication Systems ~Studio in Art 1 & 2 ~Studio In Printmaking ~Studio in Computer Design ~Studio In Media Arts ~Studio In Photography GST-BOCES Programs: <ul style="list-style-type: none"> ~Digital Media Arts ~Culinary Arts ~Audio/Media Design ~New Visions Innovation, Leadership, & Business

Some Possible Community Service Suggestions/ Employment Exposure

- | | |
|---|---|
| <ul style="list-style-type: none"> ~Local Businesses ~Arnot Ogden Art Museum ~Big Flats Youth Services ~Chemung County Historical Museum ~Cornell Cooperative Extension/Youth Programs | <ul style="list-style-type: none"> ~Horseheads Youth Bureau ~Junior Achievement of the Twin Tiers ~Science & Discovery Center ~Super Saturday Program ~Volunteer Center c/o American Red Cross |
|---|---|

Pathway to... Health Services

This Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medivac units, sports arenas, space centers, or within the community.

SKILLS & INTERESTS

<ul style="list-style-type: none"> • Leadership/Initiative • Working With People • Communication Skills • Teamwork 	<ul style="list-style-type: none"> • Analytical Skills • Working with Data • Reading Comprehension • Math, Science & Technical Skills 	<ul style="list-style-type: none"> • Critical Thinking • Problem Solving • Coordination/ Fine Motor Skills
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Potential Career Clusters & Job Titles

Therapeutic Services	Diagnostic Services	Health Informatics	Support Services	Biotechnology Research & Development
Athletic Trainer	Cardiovascular Technologist	Admitting Clerk	Biomedical/Clinical Engineer	Biochemist
Audiologist	Computer Lab Tomography (CT)	Data Analyst	Central Services Technician	Bioinformatics Specialist
Certified Nurse Asst	Exercise Physiologist	Ethicist	Dietary Technician	Biomedical Chemist
Chiropractor	Geneticist	Health Care Administrator	Environmental Health and Safety	Biostatistician
Dental Hygienist	Magnetic Resonance (MR) Technologist	Health Educator	Environmental Services Technician	Cell Biologist
EMT	Mammographer	Health Information Coder	Facilities Manager	Geneticist
Massage Therapist	Medical Lab Tech	Medical Biller	Food Service	Lab Technician
Medical Assistant	Nuclear Medicine Technologist	Medical Information Technologist	Industrial Hygienist	Microbiologist
Mortician	Pathologist	Medical Librarian	Hospital Maintenance Engineer	Molecular Biologist
Optometrist	Nutritionist	Reimbursement Specialist	Materials Management Tech	Pharmaceutical Scientist
Paramedic	Phlebotomist	Risk Management	Transport Technician	Quality Assurance Technician
Pharmacist	Radiological Tech	Social Worker		Regulatory Affairs Specialist
Physical Therapist	Radiologist	Transcriptionist		Research Assistant
Physician		Utilization Manager		Toxicologist
Physician's Asst.				
Registered Nurse				



Pathway to... Health Services

Standard Core Graduation Requirements (Minimum)

English (4credits)	Mathematics (3 credits)	Foreign Language (1-3cr)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (From which to create a customized pathway)

THERAPEUTIC SERVICES, DIAGNOSTIC SERVICES, BIOTECHNOLOGY R & D:

- ~Introduction to Psychology
- ~Anatomy & Physiology
- ~Physics
- ~ACE Biology I
- ~ACE Biology II
- ~ACE Chemistry I
- ~ACE Chemistry II
- ~ACE Physics
- ~Pre-Calculus
- ~ACE Calculus I
- ~ACE Calculus II
- ~College Computer Concepts
-or- Computer Applications
- ~Food Science
- ~Child Development
- ~ACE Perspectives of Drugs
- GST-BOCES Programs:
 - ~Dental Assisting
 - ~Nurse Assisting
 - ~New Visions Health Careers
Exploration

HEALTH INFORMATICS:

- ~Introduction to Psychology
- ~Anatomy & Physiology
- ~Physics
- ~ACE Biology I
- ~ACE Biology II
- ~ACE Chemistry I
- ~ACE Chemistry II
- ~ACE Physics
- ~Pre-Calculus
- ~ACE Calculus I
- ~ACE Calculus II
- ~College Computer Concepts
-or- Computer Applications
- ~ACE Accounting I
- ~ACE Accounting II
- ~Business Law
- ~"Excel" in Business
- ~Notetaking
- ~Food Science
- ~ACE Perspectives of Drugs
- GST-BOCES Programs:
 - ~Dental Assisting
 - ~Nurse Assisting
 - ~New Visions Health Careers
Exploration

SUPPORT SERVICES:

- ~Introduction to Psychology
- ~Anatomy & Physiology
- ~Physics
- ~ACE Biology I
- ~ACE Biology II
- ~ACE Chemistry I
- ~ACE Chemistry II
- ~ACE Physics
- ~Pre-Calculus
- ~ACE Calculus I
- ~ACE Calculus II
- ~Business Law
- ~College Computer Concepts
-or- Computer Applications
- ~The Food Experience
- ~Food Science
- ~ACE Perspectives of Drugs
- GST-BOCES Programs:
 - ~Dental Assisting
 - ~Nurse Assisting
 - ~Culinary Arts
 - ~New Visions Health Careers
Exploration

Some Possible Community Service Suggestions/ Employment Exposure

- ~American Red Cross
- ~Arnot Ogden Medical Center
- ~Chemung County 4-H
- ~Cornell Cooperative Extension
- ~H.O.S.A. (Health Occupations Students of America)
- ~Life Guarding
- ~St. Joseph's Hospital
- ~Volunteer Firefighter
- ~Y.M.C.A./ Y.W.C.A.

Pathway to... Human & Public Services

This diverse Career Pathway prepares individuals for employment in career pathways related to families, human need, education and public will. Learners in the **Human Services** Career Cluster prepare for careers in early childhood development and services, counseling and mental health services, family and community services, personal care services and consumer services. Learners in the **Public Safety, Corrections and Security** Career Cluster prepare for careers in the areas of correction services, emergency and fire management services, security and protective services law enforcement services, and legal services. Learners in the **Education and Training** Career Cluster prepare for careers in teaching and training, professional support services, and administration and administrative support. Lastly, learners in the **Government and Public Administration** Career Cluster prepare for careers in governance, national security, foreign service, planning, revenue and taxation, regulation, and public management and administration.

SKILLS & INTERESTS

<ul style="list-style-type: none"> • Leadership/initiative • Teamwork • Communication Skills 	<ul style="list-style-type: none"> • Analytical Skills • Working with Data • Reading Comprehension 	<ul style="list-style-type: none"> • Critical Thinking • Public Speaking • Problem Solving
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Potential Career Clusters & Job Titles

Human Services	Public Safety, Corrections/Security	Education & Training	Government & Public Administration
Preschool Teacher	Probation/Parole Officer	Teacher/ Professor: <i>Elementary</i>	Legislative Assistant
Nanny	Corrections Officer	<i>Secondary</i>	Lobbyist
Childcare Facilities Director/Worker	EMT	<i>Special Education</i>	Senator/ Representative
Counselor: ~Career ~Marriage ~Mental Health ~Rehabilitation ~Residential ~School ~Substance Abuse	Firefighter	<i>College/University</i>	Mayor/ Governor
	Rescue Worker	Child Care Director	Mayor/ Governor
	Security Director	Coach	Cryptographer
	Private Investigator	Teacher Aide	Foreign Service Officer
	Armored Car Guard	Child Life Specialist	Diplomatic Officer
Social & Human Services Assistant	Computer Forensics Specialist	Superintendent	Census Enumerator
Cosmetologist	Criminal Investigator	Principal	Chief of Vital Statistics
Funeral Director	Attorney	Instructional Coordinator	Assessor
Personal Trainer	Animal Control Officer	Curriculum Developer	Auditor
Certified Financial Planner	Park Ranger	Instructional Media Designer	Tax Examiner
Customer Service Rep.	Judge	Social Worker	Code Inspector
	Paralegal	School Counselor	Boarder Inspector
		Speech Pathologist	Aviation Safety Officer

Pathway to... Human & Public Services

Standard Core Graduation Requirements (Minimum)

English (4 credits)	Mathematics (3 credits)	Foreign Language (1-3cr)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (from which to create a customized pathway)

<u>HUMAN SERVICES:</u>	<u>PUBLIC SAFETY, CORRECTIONS & SECURITY:</u>	<u>EDUCATION & TRAINING:</u>	<u>GOVERNMENT & PUBLIC ADMINISTRATION:</u>
~Public Speaking ~ACE Perspectives of Drugs ~Criminal Justice ~Introduction to Psychology ~Spanish ~Career Pathways –or- ~Career & Financial Mgmt. ~ Computer Applications-or- College Computer Concepts ~Business Law ~The Food Experience ~Food Science ~Child Development ~Child Development II ~Life 101 GST- BOCES Programs: ~New Visions Education & Human Services	~Public Speaking ~Forensic Science ~ACE Perspectives of Drugs ~Criminal Justice ~Introduction to Psychology ~Spanish ~Computer Applications - or- ~College Computer Concepts ~"Excel" in Business ~ACE Accounting I ~ACE Accounting II ~Business Law GST-BOCES Programs: ~Criminal Justice	~Public Speaking ~ACE Perspectives of Drugs ~Introduction to Psychology ~Career Pathways –or- ~Career & Financial Mgmt. ~Computer Applications-or- College Computer Concepts ~"Excel" in Business ~Business Law ~Food Science ~Child Development ~Child Development II ~Life 101 GST-BOCES Programs: ~Early Childhood Education ~New Visions Education & Human Services	~Public Speaking ~ACE Perspectives of Drugs ~Criminal Justice ~Introduction to Psychology ~Critical Issues/ World at War ~Geography ~American Civil War ~AP Comparative Gov't/Politics ~Spanish, French ~ACE Web Page Design ~Dreamweaver ~International Business ~Career Pathways –or- ~Career & Financial Mgmt. ~Computer Applications -or- ~College Computer Concepts ~"Excel" in Business ~ACE Accounting I ~ACE AccountingII ~Business Law

Some Possible Community Service Suggestions/ Employment Exposure

~Arctic League ~American Red Cross ~Church Organizations/Mission Trips ~Food Pantries/Soup Kitchens ~Habitat for Humanity ~Horseheads/Big Flats Youth Bureaus ~Summer Cohesion ~T.I.E.S Program	~Hospital Volunteer ~Humane Society/S.P.C.A. Volunteer ~Library Volunteer ~Nursing Home/Elder Care Centers ~Reins of Hope ~Meals on Wheels ~Chemung ARC ~Student Government	~Salvation Army Volunteer ~Summer Camp Counselor ~Summer Cohesion Program ~Super Saturday Teacher ~Special Olympics ~Volunteer Firefighter ~Mock Trial Team
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Pathway to...



Scientific, Technologies, Engineering, Trade & Technical

This diverse Career Pathway prepares learners for a variety of careers in the areas of Manufacturing; Construction; Transportation and Logistics; Engineering and Technology; and Math and Science. Learners in the **Manufacturing** career cluster prepare for careers in managing, building, and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alternations and repairs. Learners in the **Construction** career cluster prepare for careers in planning, managing, and performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. Learners in the **Transportation Distribution and Logistics** career cluster prepare for careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities. Learners who pursue careers in the **Engineering and Technology** fields will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services. Those who choose careers in the **Math and Science** career cluster apply essential math and science content and skills in a real world context. Science and math occupations include those in physical, environmental, and human endeavors. Career possibilities range from teachers of science and math to lab technicians to NASA astronauts.

SKILLS & INTERESTS:

<ul style="list-style-type: none"> • Leadership/Initiative • Teamwork • Communication Skills • Coordination/ Fine Motor Skills 	<ul style="list-style-type: none"> • Analytical Skills • Working with Data • Reading Comprehension 	<ul style="list-style-type: none"> • Critical Thinking • Problem Solving • Math, Science, & Technical Skills
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Potential Career Clusters & Job Titles

Construction & Manufacturing	Transportation & Logistics	Engineering & Technology	Science & Mathematics
Carpenter	Transportation Manager	Engineer:	Actuary
Electrician	Pilot	<i>Aeronautical</i>	Biologist
General Contractor	Truck & Bus Driver	<i>Architectural</i>	Chemist
Machine Operator	Logistician	<i>Biotechnology</i>	Economist
Tool & Die Maker	Storage & Distribution Manager	<i>Civil</i>	Geneticist
Design Engineer	Industrial & Packaging Engineer	<i>Construction</i>	Physicist
Labor Relations Manager	Industrial Equipment Mechanic	<i>Industrial</i>	Quality Control Scientist
Production Manager	Electricians & Technician	<i>Mechanical</i>	Mathematician
Instrument Control Technician	Urban & Regional Planner	Materials Lab & Supply Technician	Statistician
Meter Installer/Repairer		Quality Technician	Research Technician
		Drafter	Science Teacher
		Technical Writer	Lab Technician



Pathway to... **Scientific, Technologies, Engineering, Trade & Technical**

Standard Core Graduation Requirements (Minimum)

English (4 credits)	Mathematics (3 credits)	Foreign Lang. (1-3 cr.)	PE (3 credits)
Social Studies (4 credits)	Sciences (3 credits)	Fine Arts (1 credit)	Health (1 credit)

Elective Cluster Courses (From which to create a customized pathway)

CONSTRUCTION & MANUFACTURING :

- ~DDP
- ~ACE Graphics for Engineers
- ~ACE Engineering Orientation
- ~Production & Residential Structures
- ~Furniture & Cabinetmaking
- ~Transportation & Energy
- ~Communication Systems

- ~"Excel" in Business
- ~College Computer Concepts –or-
- ~Computer Applications
- ~Business Ownership & Marketing
- ~Business Law

- ~Housing & Interior Design

- GST-BOCES Programs:
- ~Building Trades
- ~Conservation
- ~Welding & Metal Fabrication
- ~New Visions: Innovation, Leadership & Business

ENGINEERING & TECHNOLOGY:

- ~DDP
- ~ACE Graphics for Engineers
- ~Production & Residential Structures
- ~Furniture & Cabinetmaking
- ~Transportation & Energy
- ~ACE Engineering Orientation
- ~Communication Systems

- ~College Computer Concepts –or-
- ~Computer Applications
- ~Introduction to Computer Programming

- GST-BOCES Programs:
- ~CISCO Systems
- ~New Visions Innovation, Leadership, & Business

TRANSPORTATION & LOGISTICS

- ~DDP
- ~ACE Graphics for Engineers
- ~Transportation & Energy
- ~ACE Engineering Orientation

- ~College Computer Concepts –or-
- ~Computer Applications

- GST-BOCES Programs:
- ~Conservation
- ~Diesel Equipment Technology
- ~Automotive Technology
- ~Building Trades

SCIENCE & MATHEMATICS:

- ~Forensic Science
- ~Marine Biology
- ~Zoology
- ~Astronomy/Historical Geology
- ~North American Wildlife
- ~Anatomy & Physiology
- ~Physics
- ~ACE Biology I
- ~ACE Biology II
- ~ACE Chemistry I
- ~ACE Chemistry II
- ~ACE Physics
- ~Pre-Calculus
- ~ACE Calculus I
- ~ACE Calculus II
- ~Introduction to Computer Programming

- GST BOCES Programs:
- ~New Visions: Innovation, Leadership & Business

Some Possible Community Service Suggestions/ Employment Exposure

- | | |
|---|---|
| ~Chemung County Parks & Recreation Department | ~Wings of Eagles Discovery Center |
| ~Chemung County Youth Bureau | ~Tanglewood Nature Center |
| ~Cornell Cooperative Extension | ~ The Science & Discovery Center |
| ~National Soaring Museum | ~ V.I.C.A. (Vocational Industrial Clubs of America) |

ART DEPARTMENT

Students wishing to pursue a college degree in areas such as architecture, photography, fashion design, graphic design, and illustration will need to submit a portfolio of 12-20 original pieces of art with their college application. It is recommended that these students enroll in Drawing & Painting 1 early in their high school career.

A five credit sequence in the Visual Arts can be an alternative to the Foreign Language requirement.

Foundation Courses:

- Studio in Art 1
- Studio in Art 2

1 Credit from above and 4 additional units of credit from below:

- Drawing & Painting 1
- Studio in Crafts
- Studio in Computer Design
- Studio in Sculpture
- Studio in Media Arts
- Drawing & Painting 2
- Drawing & Painting 3
- Studio in Photography
- Portfolio Development
- AP Art History

G010 Studio in Art 1

1/2 Credit - 1 Semester

Introduces you to the nature, function, and techniques of the visual arts. You will produce two and three-dimensional works in a variety of media while exploring the elements and principles of art. This course, in combination with Studio in Art 2, satisfies the New York State fine arts graduation requirement.

G011 Studio in Art 2

1/2 Credit - 1 Semester

Introduces you to the exciting world of art history. You will create projects using a variety of media and work in the style of artists and art movements from Cave Art to Contemporary Art. This course, in combination with Studio in Art 1, satisfies the New York State fine arts graduation requirement.

G012 Studio in Printmaking

1/2 Credit - 1 Semester

This course will teach you how to make fine art prints using studio processes such as relief, intaglio and stencil. Through studio production, you will master basic printmaking tools and techniques to see your work translated into two-dimensional art.

Prerequisites - Studio in Art 1 and 2

G013 Design in Clay

1/2 Credit - 1 Semester

This course introduces students to using clay as a medium for both functional and sculptural works of art. Students will learn different building techniques and a variety of ways to decorate the surface of the clay. Students will be introduced to the use of pottery and ceramics throughout history. Hands-on work and problem solving skills are emphasized.

Prerequisites - Studio in Art 1 and 2

ART DEPARTMENT

Students wishing to pursue a college degree in areas such as architecture, photography, fashion design, graphic design, and illustration will need to submit a portfolio of 12-20 original pieces of art with their college application. It is recommended that these students enroll in Drawing & Painting 1 early in their high school career.

G040 Drawing and Painting I

1 Credit - 1 Semester

This course is for you if you have successfully completed Studio in Art 1 and 2 and are interested in exploring further the world of art. You will study and practice a variety of drawing and painting techniques such as perspective and drawing from life, as well as improve your technical and creative thinking skills.

Prerequisites - Studio in Art 1 and 2

G044 Studio in Crafts

1 Credit - 1 Semester

Studio in Crafts introduces students to a wide variety of traditional forms of craft including papermaking, origami, book making, weaving, basket making, pottery, glass fusing, needle felting, cloth decoration, and jewelry making. Creative problem solving and collaboration between peers is emphasized.

Prerequisites - Studio in Art 1 and 2

G045 Studio in Computer Design

1 Credit - 1 Semester

This course explores a variety of design software including FreeHand and PhotoShop. Imaging technology such as scanners and digital cameras will be utilized to investigate design problems. You will create magazine covers, CD covers, and logos as well as work with type elements as means of expression.

Prerequisites - Studio in Art 1 and 2

G046 Studio in Sculpture

1 Credit - 1 Semester

Sculpture students will explore a variety of different media and learn how to apply knowledge of the elements of art and principles of design into three-dimensional works. The history of sculpture and pivotal sculptors will be introduced throughout the semester. Students should expect to work with cardboard, plaster, clay, soapstone, wire, papier-mâché, and fibers.

Prerequisites - Studio in Art 1 and 2

G047 Studio in Media Arts

1 Credit - 1 Semester

This beginning course in photography will introduce students to 35mm cameras, film, film processing, and darkroom use. In addition, digital cameras and image manipulation will be explored through the use of scanners and Adobe PhotoShop.

Prerequisites - Studio in Art 1 and 2

G051 Drawing and Painting II

1 Credit - 1 Semester

In this course, you will develop your technical skills through extensive studio work in painting, drawing, design, and media experimentation. Working from life will be a strong part of your study including the figure, nature, and still life.

Prerequisites - Drawing and Painting I

ART DEPARTMENT

Students wishing to pursue a college degree in areas such as architecture, photography, fashion design, graphic design, and illustration will need to submit a portfolio of 12-20 original pieces of art with their college application. It is recommended that these students enroll in Drawing & Painting 1 early in their high school career.

G052 Drawing and Painting III 1 Credit - 1 Semester

This advanced course of study provides a balance between structured learning experiences in painting and personal artistic expression using oil, acrylic, watercolor, and mixed media techniques.

Prerequisites - Drawing and Painting II

G054 Studio In Photography 1 Credit - 1 Semester

This advanced course provides a thorough background in aesthetic applications and technical aspects of photography, its history, and its contemporary direction. You'll build on your technical foundation in photography from Media Arts to create a variety of traditional, digital, and mixed media images.

Prerequisite - Studio in Media Arts

G750 Portfolio Development 1 Credit - 1 Semester

Offers advanced art students an opportunity to assemble a portfolio of work and support materials for use in college admissions, job interviews, and art competitions. Works of art will be created to strengthen the portfolio. Matting, taking slides, and resume writing will also be covered.

Prerequisite - Drawing and Painting III

G780 AP Art History 1 Credit - 1 Semester

Learn to critically analyze works of art in diverse historical and cultural contexts considering political, religious, patronage, gender, and ethnicity issues. Explore major forms of artistic expression such as architecture, sculpture, painting, and other media across a variety of cultures. Learn the purpose and function of art as you develop to articulate visual and art historical concepts in verbal and written form.

Prerequisites - English 9 and Global Studies

BUSINESS DEPARTMENT

A student interested in Business Education courses should note that a variety of 5-credit sequences are offered. Many students combine subjects from various business, academic, family and consumer science, technology, and art programs to fit their special needs and interests. All business courses promote the personal traits and attitudes considered essential for success in modern business.

5 Credit Sequences

- Career & Financial Management
 Plus
- Computer Applications or
- College Computer Concepts and Notetaking

Plus One (1) Credit from the following:

- ACE Accounting 1
- Introduction to Marketing
- Business Ownership and Marketing
- Business Law

3 credits from above plus 2 from below to fill the 5 unit sequence

Financial Cluster

- ACE Accounting 1
- ACE Accounting 2
- Business Law

Marketing Cluster

- Introduction to Marketing
- Business Ownership and Marketing
- ACE Accounting 1
- Business Law

A five-credit sequence in Business Education can be an alternative choice to the Foreign Language requirement for Advanced Regents diploma candidates.

J040 “Excel” in Business

1 Semester - 1 Credit

Take a practical approach to learning math through the aid of Excel worksheets. Students with a strong math foundation will be most successful in this course.

This course will prepare you to meet the challenges which you will face after graduation, covering topics such as banking, payroll, commission, unit pricing, interest, installment buying, investments (stocks, bonds, and property), tax, insurance, and retail math.

Student progress is evaluated through homework, quizzes, projects using Microsoft Excel, and a final examination.

This course can count as a math requirement for graduation once state exam requirements have been met.

BUSINESS DEPARTMENT

J041 Computer Applications

1 Semester - 1 Credit

A great way to familiarize yourself with the most updated technology while increasing your keyboarding skills. This course is project based. Students become familiar with the fundamentals of Word, Excel (spreadsheets), presentation software, and other software that will help you in college and beyond.

This course is open to all students. Students are evaluated on their projects and communication skills and all assignments are designed to fit into the 80-minute period.

J042 Math for Personal Finances

1 Semester - 1 Credit

This is an interdisciplinary business course designed to help students understand the complex financial world they will encounter during their lives. It will also prepare students for potential occupations or college careers. Applications of mathematics to typical business problems such as taxes, insurance, payroll, depreciation, trade and cash discounts, budgeting, etc. will be covered.

Student progress is evaluated through class assignments, quizzes, tests, and final exam.

This course can count as a math requirement for graduation once state exam requirements have been met.

J044 Introduction to Marketing

1 Semester - 1 Credit

If you are interested in retailing, you should take this course. You will study the four P's of marketing: product, price, place, and promotion. The importance of marketing research is presented through case studies. Time is also spent analyzing current marketing trends. Guest speakers and fieldtrips give first hand experiences and make lasting connections.

This course is open to all students. Grades are based on projects, tests, and a project based final.

J045 Business Ownership & Marketing

1 Semester - 1 Credit

Want to start your own business? The marketing, merchandising, and management skills that make up the course content are presented in a format that emphasizes the role of an entrepreneur. Content within this course will provide students with a step by step approach to starting and operating a business through the development of a business plan. Both the performance objectives and the instructional strategies emphasize a project oriented method of instruction. Excel, PowerPoint, and Access will be explored as they relate to the successful operation of a business.

Grades are based on projects, quizzes, tests, a business plan, and a final exam.

J053 Business Law

1 Semester - 1 Credit

Course provides a solid foundation in understanding legal issues and an important familiarity with the core topics of business law, integrated with the most relevant personal law topics. You will hear speakers from our local legal community with a possibility of travelling to the Chemung County Courthouse to see the legal system in action during court proceedings. This proves to be an eye-opening experience for all students. In the past the County Court Judge has talked with the class after court to answer questions about what they witnessed and about the legal system in general.

BUSINESS DEPARTMENT

J091 ACE Accounting 1

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

ACCT 1000 - Accounting Practices

Preparation for entry level accounting positions for a sole proprietorship and merchandising business can be obtained in this course. This course is designed to develop competence in the application of accounting theory and principles. Students will learn the basic principles of accounting including the double entry system of closing accounts, preparation of financial statements, banking procedures, the ten column worksheet, and payroll accounting.

Student progress is evaluated through chapter tests, simulation activities, quizzes, homework, and a final exam.

Corning Community College credit is optional with a fee. See page 6 for additional information regarding credit through CCC.

J092 ACE Accounting II

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

ACCT 1030 - Financial Accounting

Students will have an opportunity to broaden and enhance the skills learned in ACE Accounting 1. This advanced course involves a review of the ten steps of the Accounting Cycle. More complex business situations including preparation and analysis of detailed financial statements and accounting for small business, partnerships, and corporations are covered. Computer exercises will be integrated using Glencoe and Peachtree Accounting software.

Students are evaluated on completion of homework, quizzes, simulation activities, chapter tests, and a final exam.

Corning Community College credit is optional with a fee. See page 6 for additional information regarding credit through CCC.

J093 ACE Web Page Design

1 Semester - 1 Credit (HHS)

1 Semester - 3 Credits (CCC)

CSWT 1200 - Web Site Developmental Fundamentals

Web page development techniques using HTML, CSS, and web site authoring software. Presentation skills necessary to build, deploy, and manage professional web pages. Topics include basic tags and more advanced features while emphasizing accessibility, compatibility, usability, security, and emerging Internet trends. Course is project based.

By the end of this course, students will be able to:

- Create static HTML documents using basic editors and web authoring software
- Create and apply CSS styles in order to separate style from content
- Demonstrate an understanding for web site design and site structure
- Design and develop sites for the mobile web
- Apply various formatting, linking, media, and operational HTML tags
- Employ advanced tags to include tables, frames, forms, and multimedia on a web page
- Recognize and understand different graphic formats that are available for web pages
- Deploy and manage a site on a web server
- Employ and test compatibility of a web site when dealing with various browsers, platforms, and devices
- Express the importance of web page accessibility, usability and security

Corning Community College credit is optional with a fee. See page 6 for additional information regarding credit through CCC.

BUSINESS DEPARTMENT

J010 Dreamweaver

1 Semester – 1/2 Credit

The Web is an important communication tool in the world of business. Being able to develop a web page for a business can help that business meet the needs of the global economy.

A web page can be a first impression that one receives about a business. Having a site that is easily accessible, visually appealing, and filled with pertinent information is imperative to be competitive in today's business world.

Students will study and apply principles to create a web page with an emphasis on Dreamweaver to convey a very clear message to its visitors.

Student progress will be evaluated through class projects. Final is creating a personal website of your choice.

J011 Sports & Entertainment Marketing

1 Semester - 1/2 Credit

Sports and entertainment are important parts of our modern economy. This course will take the student on a step by step journey through the world of marketing. Students will learn the basic functions of marketing and how those functions are applied to sports and entertainment. The following computer skills will also be incorporated through the course: Web searches, PowerPoint, and Excel.

Students will be evaluated on class assignments, projects, quizzes, and a final project.

J012 International Business

1 Semester - 1/2 Credit

The focus of this half credit course is to develop an appreciation of the knowledge, skills, and abilities needed to live and work in a global marketplace. Through project-based learning students will become aware of diversity in cultures and associated customs as well as appropriate business conduct within the international marketplace. Main content areas are: Our Global Economy; US and World Geography; International Trade; Foreign Currencies and Values; Time Zones and Travel; Cultural and Social Diversity; Ethnic Foods; and Multicultural Marketing. There will also be guest speakers from various global businesses in our region.

J014 Career Pathways

1 Semester - 1/2 Credit

In this half credit course you will first learn your role in the workplace and within the economy. You will then have the opportunity to analyze your personal strengths, weaknesses, lifestyle goals, and work values. You will research several career options available to you and have the opportunity to listen to guest speakers from various career fields (some of whom you will get to choose). You will match your interests and goals with two career options that suit you and you will follow through with an educational and career plan to attain your goal. In the final phase of this course you will learn how to present yourself to a prospective employer and will have the opportunity to experience a "mock" interview with Human Resource professionals from our business community.

J015 College Computer Concepts

1 Semester - 1/2 Credit

A great way to keep updated on the latest software. This course meets every other day and is project based. Students will have fun learning new ways to create presentations and formatting skills necessary to be successful in school and beyond. Final is a project.

BUSINESS DEPARTMENT

J016 Notetaking & Study Skills

1 Semester - 1/2 Credit

Students will learn various modalities of note taking and the different settings in which they are used. You will learn how to take notes at a classroom lecture (high school or college, live or online), from a book you are reading for a course or for leisure, or when you are in a meeting for which you have been appointed to create and distribute minutes. In college and in the workplace the primary mode of note taking is via laptop or tablet so you will start by learning the proper method of finger placement on the keyboard to help ensure speed and accuracy in taking electronic notes. You will use a results-driven software called Microtype that will provide necessary practice in key location and finger reaches and you will practice taking electronic notes from various sources. Manual note taking strategies will be covered and practiced. You will be able to apply what you have learned in note taking to aid in studying for tests and exams as well as test taking strategies helpful in school and the workplace.

ENGLISH DEPARTMENT

A550 English 9 1 Semester - 1 Credit

This required freshman year course will focus on the essential standards of the New York State Common Core curriculum. Students will be engaged in structured and unstructured listening exercises and will plan and deliver both formal and informal speaking exercises. Assigned reading will come from a variety of genres (short stories, plays, poems, novels, and nonfiction); students must be prepared to complete a significant portion of the reading outside of class. All students will participate in a full classroom study of one play by William Shakespeare and one or two novels, from a list of titles adopted for 9th grade. Regular composition work will be assigned, with a number of essays requiring a rewrite. Preliminary preparation for the junior year Common Core English Regents exam is a part of this course. Additionally, students will increase their vocabulary through a series of structured vocabulary units. Following classroom instruction in M.L.A. documentation style, students will each produce a 3-page (minimum) M.L.A.-style research paper, utilizing published sources to defend their position on a controversial topic. The course will culminate with a local final examination that will include fiction and nonfiction reading comprehension tasks and an argument-based essay.

A650 English 10 1 Semester - 1 Credit

This required sophomore year course will focus on the essential standards of the New York State Common Core curriculum. Students will be engaged in structured and unstructured listening exercises and will plan and deliver both formal and informal speeches. Assigned readings will come from a variety of genres (short stories, plays, poems, novels, and nonfiction); students must be prepared to complete a significant portion of the reading outside of class. All students will study a play by William Shakespeare as well as one or two novels from a list of titles adopted for 10th grade. Regular composition work will be assigned, with a number of essays requiring a rewrite. Continued preparation for the junior-year Common Core English Regents exam is a part of this course. Additionally, students will increase their vocabulary through a series of teacher-designed vocabulary units. Following classroom instruction and library visits, students will produce a 4-page (minimum) M.L.A.-style research paper. The course will culminate with a local final examination that will include fiction and nonfiction reading comprehension tasks and an argument-based essay.

Prerequisite: English 9

A750 American Literature & Composition 1 Semester - 1 Credit

This required junior year course will focus on the essential standards of the New York State Common Core curriculum. This course is a survey of American literature from colonial times to the present. The purpose of the course is to acquaint the students with the thoughts and contributions of American writers and the periods in which they wrote. Students will be engaged in structured and unstructured listening exercises and will plan and deliver both formal and informal speeches. Assigned readings will come from a variety of genres (short stories, plays, poems, novels, and nonfiction); students must be prepared to complete a significant portion of the reading outside of class. Regular composition work will be assigned, with a number of essays requiring a rewrite. Continued preparation for the Common Core English Regents exam is a part of this course. Additionally, students will increase their vocabulary through a series of teacher-designed vocabulary units. Following classroom instruction and library visits, students will produce a 5-page (minimum) M.L.A.-style research paper. The course will culminate with the New York State Common Core English Regents Exam. The student's grade on this exam counts as the Final Exam grade for the course.

Prerequisites: English 9 and English 10

A760 American Voices A/B Day Schedule 2 Semesters - 1 Credit

ENGLISH DEPARTMENT

American Voices is offered in conjunction with the AP US History course, giving advanced junior year students the opportunity to investigate political and literary documents and other aspects of the culture. Students will be engaged in a chronological study of historical American literature, architecture, art, and music. Students will be immersed in the writing process and will achieve a high production level of written composition. American Voices is a mandatory companion course for students concurrently enrolled in AP US History. By completing each course, students earn both their junior year English and Social Studies credit. Students are required to attend an evening introductory meeting to the course in late May or early June prior to the start of the course in September to receive the summer book and essay assignment.

Prerequisites: English 9 and English 10

A850 English 12

**1 Semester - 1 Credit
Offered every year**

This elective course designed for seniors only will focus on the four essential standards of the New York State curriculum: listening, speaking, reading, and writing. Assigned readings from a variety of genres (short stories, a play, poetry, and novels) will be chosen from the canon of British literature. Students should be prepared to compose numerous essays, to deliver prepared speeches, to learn a battery of vocabulary, and to read outside of class.

A880 Advanced Placement English

2 Semesters - 2 Credits (HHS)

The objectives of this rigorous year-long college course are based on a national curriculum designed and governed by the College Board of Princeton and are intended for gifted seniors. AP English is both demanding and intellectually stimulating. It requires the student's best effort consistently and emphasizes his/her developing independence of thought and mature habits of critical thinking.

Participants are expected to enter with these requisite skills: the ability to read accurately; the ability to engage in intelligent discussion, involving active listening and constructive speaking; the desire to learn more than is obvious or superficial; a sense of personal and social responsibility sufficient to keep up with the individual workload and to contribute meaningfully to group efforts; the willingness to accept criticism from both the teacher and from peers; either a solid basic command of language or the willingness to work hard to catch up to students who possess such a skill level.

Students are trained to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. Constant practice in composition and thorough instructor criticism will raise awareness of the interaction between authorial purpose, audience needs, the subject itself, generic conventions, and the resources of language: syntax, word choice, tone. Multiple drafts of composition assignments with scrutiny of linguistic and rhetorical choices are an integral part of the individualized writing process.

In addition, students learn to read and comprehend some of the finest literature written at various times in numerous cultures with an emphasis on literature originally written in English. They learn how to discover meaning in literature by being attentive to language, image, character, action, argument, and the various techniques and strategies authors use to evoke emotional responses from readers. Students are expected to justify their interpretations by references to details and patterns found in the text, to compare their interpretations with those proposed by others (classmates, instructor, and published literary scholars), and to be prepared to modify their own interpretations as they learn and are challenged to think more thoroughly.

Activities planned for the course include essays, compositions, formal and informal speeches, research papers, self-directed projects, Reader's Theater, creative writing, film study, and debates.

To officially document their achievement in the course, students are prepared and required to sit for either national examination offered by the College Board in May: English Language and Composition or English Literature and Composition. Many students, after individual counseling, may

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elect to sit for both national exams. Students are required to attend an evening introductory meeting to the course in late May or early June prior to the start of the course in September to receive the summer book and essay assignment.

A890 College English (ACE)

1 Semester - 1 Credit (HHS)

1 Semester - 3 Credits (CCC)

ENGL 1010 – College Comp I

EN 1010 is a freshman college composition course whose overall objective is to produce competent college-level writers. The emphasis of EN 1010 is not solely on the finished product but also on the writing process through which the final product is generated. Students will follow a writing process that may include the following: prewriting, one or more drafts, and a final typed copy.

Essay writing is designed to sharpen the student's perceptions of the world and to facilitate communications with correctness, clarity, unity, organization, and depth. Writing assignments include a variety of formal essays with an emphasis on argumentation, culminating with an argumentative research paper. Other writing assignments, i.e. journals, short informal essays, etc. may be assigned at the discretion of the instructor.

Since writing is a reflection of thinking, EN 1010 is also a thinking course with its goal to promote evaluative, inquiring, and aware consideration of the issues in our world and to foster a tolerance for differing viewpoints tempered by critical examination of those points of view. To accomplish this goal, students will engage in critical reading of both nonfiction and fiction, reading that looks beneath the surface of the writing and seeks to understand how the piece works. Student participation in class discussion is an integral part of the course. Moreover, both announced and unannounced quizzes on the readings may be given at the discretion of the instructor.

Regular vocabulary units will help students build an extensive vocabulary with which to express themselves precisely in their writing and in their speaking. Work with grammar, usage, and mechanics will enable students to write correctly and clearly.

Students who register for this course should be prepared to challenge first level college work. Improving one's writing requires diligence, commitment, and imagination. The skills and methods taught in this course are applicable in every other college course and in the professional world.

It is strongly recommended that the student achieve an average grade of 90 or above in English 9, 10, and 11 and earn a grade of 85 or greater on the English Regents exam prior to enrollment in this course.

See page 6 for additional information regarding credit through Corning Community College.

GRADES 11 & 12 ENGLISH ELECTIVES:

The purpose of the elective program is to offer students a broad range of literature and writing courses. The student can select those courses which will not only be most helpful to him or her but also satisfy interests.

In all courses an emphasis is placed on basic English skills. Reading is taught through the use of directed reading activities and attention is given to the development of critical reading skills and activities. Writing includes reinforcement of the basic skills of sentence structure and paragraph development as well as appropriate exercises related to course content. Vocabulary development accompanies the various readings in each course and is supplemented by other vocabulary work as necessary for the individual class and student. The teaching of listening and oral communication skills is developed through class discussions. Work on spelling accompanies each of the other activities. Grammar texts are also used to provide practice and tests for spelling.

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A801 Mythology

1 Semester - 1 Credit
Offered every other year
Offered: 2018-2019

The student who takes Mythology as an elective will study a wide range of Greek myths and literature. Among the types of myths to be studied are the Olympians, heroes, love and transformation stories and wars. Through these myths students will examine how the early Greeks related to their physical, social, religious, and political environment and recognize eternal truths, attitudes, and feelings common to all humans in any time. Moreover, knowledge of classical mythology will enhance students' appreciation and understanding of the myriad allusions in Western art, music, and literature. For this course, students can anticipate regularly assigned outside reading, lively classroom discussion, and regular essay assignments.

A802 Introduction to Shakespeare 1 Semester - 1 Credit **Offered every year**

"All the world's a stage" in this literature course devoted to the life and works of the bard: William Shakespeare. This course's approach to the genius of William Shakespeare is designed to provide an introductory understanding and appreciation of the unique skill of William Shakespeare as a dramatist through the reading and study of selected sonnets and plays, class discussion, written papers, oral reading in class, professional recordings and, when possible, live performance. Prior to the literature works, students will begin their study with an examination of the life and times of William Shakespeare. For this course, students should be prepared to read challenging poetic text, to write thoughtful analytical essays, to participate in reading Shakespeare's plays aloud, and to regularly engage in class discussion.

A803 Creative Writing 1 Semester - 1 Credit **Offered every year**

In this course students will read and discuss the work of well-established poets and fiction writers with special attention granted to form, structure, narrative, and poetic devices. The reading component of the course will enable students to explore writing styles of various authors. Creativity, self-expression, and the use of imagination are encouraged through the production of original poetry, short stories, a memoir, and a journal. Ideas and strategies will be generated through pre-writing activities which stress inquiry and critical thinking skills. This course is a workshop course and success will depend on the students' willingness to participate by sharing their own creative work and to support classmates' efforts. Students can anticipate regularly assigned outside reading, composition and revision of original creative works, and participation in peer feedback forums.

A804 Journalism 1 Semester - 1 Credit **Offered every other year** **Offered: 2019-2020**

The student who is interested in journalism as a possible career path or a means of achieving a better grasp of the workings of the press at the school, community, or national level will find this course and its activities designed to meet his/her needs. Students will explore the historical and constitutional foundation of press functions and key court decisions which have been either restraining or liberating. Students will be able to answer the question: what is the role and function of a free press in a democracy? This course stresses examination, modeling, and practice in the skills and proprieties involved in gathering, organizing, writing, and publishing pertinent material for a newspaper, particularly at the high school level. For this course, students can expect to read a considerable amount of material, to speak both formally and informally, to

ENGLISH DEPARTMENT

listen for information and criticism, and to write regularly (including revising written work). Students will be prepared to produce a news story, a feature story, an editorial essay, a book, music, or film review, and an interview.

A841 Media Production

1 Semester - 1 Credit
Offered every other year
Offered: 2019-2020

Media Production teaches the persuasive power of oral and visual communication. Its purpose is to expose students to the various media as transmitters of our living present culture and our cultural past. In other words, it exposes students to newspapers, magazines, radio, television, motion pictures, advertising, and the recording industry. When exploring film and video techniques, students should have access to a video, 35 mm, or digital camera. (In case of malfunction in a student's camera the student may use the school camera for his/her project.)

Major assignments include a class publication, radio show, television program, ad campaign, and music video. Students may spend between \$10 and \$25 in lab fees to cover the cost of the final course project which they keep. Field trips may be taken to area radio stations, television studios, and newspaper publishing businesses.

A842 Fantasy and Science Fiction

1 Semester - 1 Credit
Offered every other year
Offered: 2019-2020

This course introduces fantasy and science fiction as separate styles of writing. Both will include readings from noted authors and videos in their respective fields. Fantasy will cover such topics as good vs. evil, heroes, and quests. Science fiction will look at future societies, space exploration, and the possibility of time travel. Evaluation will consist of compositions, tests, and major projects. A balance of reading, speaking, listening, and writing skills will be required as students study the material presented.

A844 Young Adult Literature

1 Semester - 1 Credit
Offered every year

This course will present a variety of literary selections which will present teenage life in a variety of given situations, conflicts, problems, and experiences which the students can recognize and to which the students can relate. The students will become familiar with realistic situations and themes by reading and studying selected novels, short stories, and more. A balance of reading, speaking, listening, and writing skills will be required as students study the material presented.

A853 Public Speaking

1 Semester - 1 Credit
Offered every other year
Offered: 2018-2019

Public speaking is designed to help students communicate and associate with others through speaking. It builds the self-confidence of the student as he/she makes different presentations. Assignments include speeches for different occasions, discussions, and debate. Evaluation is based primarily on oral presentations, discussions, and written critiques.

Another integral part of this course is the oral interpretation of literature which allows students the opportunity to share literature. Students will analyze the organization, style, and structure of various devices writers use in prose, poetry, and drama. Additional assignments include editing material, keeping within time limits, writing appropriate introductions, and evaluating presentations. Field trips may be taken.

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A857 British Literature

**1 Semester - 1 Credit
Offered 2018-2019**

British Literature is a survey of the highlights of English literature. The course will cover the principal works from the Anglo-Saxon period to the Twentieth Century including such genres as plays, short stories, poetry, and non-fiction. While addressing the students' abilities to be effective communicators, creative problem solvers, and quality decision makers, the reading, writing, listening, and speaking exercises used in British Literature will provide a strong background for students who are planning to attend college.

A858 Drama

**1 Semester - 1 Credit
Offered every year**

Drama is an overview of both drama and stagecraft. Throughout this course students will assume the roles of actor, director, and crew member. In addition, students will become familiar with a variety of plays and musicals through reading and discussion. Students will be given the opportunity to attend a Broadway play.

Students will learn the basic techniques used in acting, makeup, costuming, set design, lighting, and directing. Course evaluation will include performance assessments, written assignments, and classroom participation.

FAMILY & CONSUMER SCIENCE DEPARTMENT

There are 3 Family & Consumer Science Sequences:

- Food and Nutrition Cluster
- Human Development Cluster
- Home and Personal Management Cluster

All sequences include:

- Career & Financial Management
- The Food Experience
- Life 101

All students who plan to attend the GST BOCES Career and Technical Education Center in grades 11 and 12 to pursue their interests in Child Care, Culinary Arts, Cosmetology, or Health Services:

- Are encouraged to take Life 101
- Are encouraged to take one course in the food science area.

Five Credit sequence in Family & Consumer Science can be an alternative choice to the Foreign Language requirement for Advanced Regents diploma candidates.

K041 The Food Experience

1 Semester - 1 Credit

Students will learn the fundamental elements of meal planning and preparation. Through weekly food labs they will utilize these skills to successfully prepare delicious and exciting recipes using a variety of ingredients. Students will discover the origins of many of our regional and international dishes and be exposed to speakers in the food service industry.

K044 Housing and Interior Design

1 Semester - 1 Credit

Explore the fundamentals of housing construction and design. Learn the steps it takes to make a house into a home. Students will be exposed to the world of Real Estate, housing styles, home construction and maintenance, floor plan design, interior design basics, and careers in the housing industry. Students will complete a final project that incorporates all the necessary elements to create their dream home.

This course can count as one credit of Fine Arts.

K046 Food Science

1 Semester - 1 Credit

Learn real-world applications for science and technology through hands-on activities that teach the principles of food science. The topics of food safety, food preservation and processing, global food issues, nutrition and wellness, and careers in the food industry will be covered. Experiments will accompany the topics addressed, examples include bread, cheese, and candy making as well as jam and pickle making. This course will fulfill the third year science requirement.

K012 Interior Design II

1 Semester - ½ Credit

Contemporary or Country, fancy or plain, learn the decorating elements that make a house a home. From floor plans to fabric selections, Interior Design II explores all the elements of designing a home or living space. This course focuses on fibers, finishes, and furniture. It is a "How To" course for decorating a home. Learn how to arrange furniture and select drapes and floor treatments. This up to date exciting course is a hands on class for anyone interested in interior decorating.

This course can count as a ½ credit in Fine Arts.

FAMILY & CONSUMER SCIENCE DEPARTMENT

K010 Arts of the Home

1 Semester - ½ Credit

Arts of the Home is a "How To" course which includes extensive hands on projects in the areas of soft textiles and wood. Projects will focus on those that can be used in the decorating of one's home such as quilting, needlepoint, decoupage, counted cross stitch, knitting, crocheting, and much more. Students will use knowledge of design elements within their projects.

This course can count as a ½ credit in Fine Arts.

K043 Child Development

1 Semester - 1 Credit

Discover the world of children. Students will look at the qualities of a parent. They will discuss cost, joys, and frustrations of rearing a child. Students will learn the importance of a healthy body and how it affects birth defects and the development of a child. Child discipline techniques will be discussed for a variety of situations, analyzing their effects on the child. Using hands on projects, students will learn how children develop and grow. Projects include creating a book and toy usable for a child. This is a great course for anyone interested in working with children.

K013 Child Development II

1 Semester - ½ Credit

Students who have successfully completed *Child Development I* may take this course. For one hour each week students will work directly with infants, toddlers, or preschoolers in a daycare setting or nursery school. Students will plan, prepare, and present activities for the age group to which they are assigned and learn various observation and recording techniques. If you want practical experience working with children, this is the course for you.

Prerequisite: Successful completion of Child Development I

K045 Sewing Fashions

1 Semester -1 Credit

Through the elements and principles of flat pattern construction, students will learn basic sewing techniques in a lab setting. The fundamentals of clothing construction and personal project designs will be explored. In addition, students will create wearable or functional projects that will lead to a fashion style all their own.

This course can count as one credit in Fine Arts.

K740 Life 101

1 Semester - 1 Credit

Are you ready to live on your own? Do you want better relationships with members of your family and friends? Then this is the course for you! Through classroom activities and interactive computer programs you will develop the skills to find an apartment, furnish it, live within a budget, buy a car, insure it, and even plan a vacation. You will also practice skills that will show you how to solve problems in all types of personal relationships and give you the ability to build a strong family in the future.

Note: Available to Juniors and Seniors only.

FOREIGN LANGUAGE DEPARTMENT

E451 French I

1 Semester - 1 Credit

French I is a beginning level, Checkpoint A, course. Students learn the sound system, basic vocabulary, structures and about the French-speaking world through various media. They will learn to provide and obtain information and socialize on everyday topics such as: family, meals, travel, and leisure activities. They learn to read for information from basic French materials such as short notes, brief messages and advertisements. Students will be evaluated based on homework, quizzes, tests, projects and a final proficiency examination. Quizzes and tests will include all skill areas.

E551 French II

1 Semester - 1 Credit

This course continues to explore the Francophone world using skills acquired in level one with more instruction in the target language. Reading, writing, speaking, and listening will be more advanced. Linguistic skills developed in level one will be finessed. Students will read chapter texts. Cultural material will be more sophisticated, pronunciation will be practiced and extemporaneous speaking will be encouraged. Students will be evaluated through homework, quizzes, tests, projects and a final examination who focuses on the four communication skills and Francophone culture.

Prerequisite: French I or successful completion of three years in another language

E651 French III

1 Semester - 1 Credit

French III is an intermediate French language course who aims to help students communicate more effectively in the target language. French culture is studied in the target language, through various media, and will continue to cover French-speaking countries around the world. More of the course will be instructed in French, preparing students for advanced language study.

Preparation for the four sections of the Comprehensive Regents Equivalency Final Examination will be undertaken. Students are required to speak on a daily basis to prepare them for the two dialogs that are part of the final examination, to initiate and sustain basic conversations with their peers and teachers, and to read and comprehend materials written for native speakers such as periodical articles and advertisements. Students will be evaluated throughout the semester with homework, compositions, quizzes, tests, projects, voice recordings, conversations and a final exam.

Prerequisite: French II

E791 French IV ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

FREN 2010 Intermediate French

This second-year college-level French course is for students who wish to continue language study for development of greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures while focusing on modern Francophone civilizations as a major theme. This course includes a thorough analysis of the language through discussions of grammar, vocabulary and literature while enhancing expression through composition, oral reports, class discussions and conversations.

The class is conducted primarily in the target language and students are encouraged to speak in the target language, creating a collegiate-level learning environment. There is a required weekly language lab component to foster development of aural and oral competencies. Students will be evaluated through class participation, homework, lab exercises, interviews, written quizzes, tests, projects and a final exam.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Level III

FOREIGN LANGUAGE DEPARTMENT

E891 French V ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

FREN 2020 Composition & Conversation

This course is designed as a conversation and composition college credit course with CCC. This class covers the equivalent of a third-year college course in advanced French writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students taking this course can expect the use of French for active communication with the following objectives: 1) the ability to comprehend formal and informal French spoken by native speakers from authentic sources; 2) the acquisition of vocabulary and a grasp of structures to allow accurate reading of literary pieces and newspaper articles; (3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. The final exam is a project decided by the student and the teacher and will consist of an in-class presentation. This course is conducted entirely in French.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Level IV

E450 Spanish I

1 Semester - 1 Credit

Spanish I is a beginning level, Checkpoint A, course. Students learn the sound system, basic vocabulary, and structures. They will learn to provide and obtain information and socialize about everyday topics such as: family, meals, travel, and leisure activities. They learn to read for information from basic Spanish materials such as short notes, brief messages, and advertisements. Students will also learn to write basic notes and messages about everyday activities. Students are evaluated by oral interviews and written quizzes and exams. The final exam is a district final that includes speaking, listening, reading, and writing.

Prerequisite: None

E550 Spanish II

1 Semester - 1 Credit

Spanish II is a continuation of Checkpoint A, beginning Spanish. Students continue to develop their communication skills in listening, speaking, reading, and writing Spanish in order to provide and obtain information and to socialize using the Spanish language. Some of the topics covered are: family, meals, shopping, and health. They are also presented with cultural patterns and traditions of Spanish-speaking countries. Students are evaluated by oral interviews and written quizzes and exams. The final exam is a district final that includes speaking, listening, reading, and writing.

Prerequisite: Spanish I or Spanish Heritage II

E650 Spanish III

1 Semester - 1 Credit

Spanish III is a course designed to prepare students to take the Comprehensive Regents Exam in Spanish. It is a Checkpoint B course according to NYS standards. Students continue to develop their four communication skills in Spanish: listening, speaking, reading, and writing. Students are required to speak on a daily basis to prepare them for the two interviews that are part of the Regents Exam. Students are required to initiate and sustain basic conversations with their peers and teachers. Students are required to read and comprehend materials written for native speakers such as magazine and newspaper articles and advertisements. Students are evaluated by oral interviews as well as written quizzes and exams, tests, and a final exam.

Prerequisite: Spanish II

FOREIGN LANGUAGE DEPARTMENT

E790 Spanish IV ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

SPAN 2010 Intermediate Spanish

This intermediate Spanish course is designed for students who wish to continue language study for development of greater facility in reading, writing, speaking and understanding the language through a systematic review of its structures. This course includes a thorough analysis of the language through an intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and class discussions and conversations. The class is conducted primarily in the target language and therefore, students are required to speak in the target language.

There is a lab component to these courses. Students will do listening and speaking activities in the computer lab at least once per week. Students will be evaluated through class participation, homework, lab exercises, interviews, written quizzes, tests, and a final exam.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Level III

E880 Spanish V ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

SPAN 2020 Comp and Conversation

This course is designed as an advanced Spanish Language course, as well as a conversation and composition college credit course with CCC. This class covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students taking this course can expect the use of Spanish for active communication with the following objectives: 1) the ability to comprehend formal and informal Spanish spoken by native speakers on tapes and CD's; 2) the acquisition of vocabulary and a grasp of structure to allow accurate reading of literary pieces and newspaper articles; (3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. The final exam is a project decided by the student and the teacher. This course is conducted entirely in Spanish.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Level IV

E892 Spanish VI ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

SPAN 2310 Brief Intro to Literature

This course is an advanced study in the language with an introduction to serious readings of the great writers of literature. The student conveys ideas and develops the ability to exchange ideas through writing and discussion of literary works in the target language. This class is conducted in the target language.

Students are evaluated through class participation, oral presentations, interviews, written quizzes and test, as well as a comprehensive final exam.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Level V

HEALTH EDUCATION DEPARTMENT

P740 Health Education

1 Semester - 1 Credit

Health Education is a NYS mandated course required for high school graduation. This one semester course focuses on Wellness, positive life choices and asserts that health is a matter of individual responsibility. Health Education provides a variety of decision-making tools and skills that use and demonstrates knowledge, understanding, and a sense of personal values. The goal is to empower students to choose a life-long healthy lifestyle.

The course content consists of units on Choice Theory, Wellness, Mental Health, Nutrition, Substance Use/Abuse (Alcohol, Tobacco, and Other Drugs), Healthy Relationships, Physiology and Anatomy of our Sexuality, Chronic and Communicable Diseases.

P890 ACE Perspectives of Drugs

1 Semester - 1 Credit (HHS)

1 Semester - 3 Credits (CCC)

HLTH 1202 – Perspectives of Drugs

This course explores the motivation for drug use and abuse and identifies the differences between each. Alternatives to drug use, where/how to find “natural highs”, and skills for doing so will be determined and practiced. Specific drug types and their identifications will be defined. Psychological, physiological, and legal implications of drug addiction and rehabilitation will be determined. This course is reading and writing intensive and requires class and field research on specific topics.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: High School Health Education

INTERDISCIPLINARY EDUCATION

F040 Career & Financial Management 1 Semester - 1 Credit

This full credit course introduces students to the world of Business. We will explore four key areas: Economics; Basic Business Structures; Career Exploration; and Personal Finance, which will provide students with a better understanding of the vital role they will play our economy. Students will gain an understanding of how our economy works and how our economy affects that of other countries. We will then look at the various types of business structures. Students will then have the opportunity to thoroughly explore many career interest areas as they gather information to assist them in formulating their own individualized career plan. Guest speakers from various types of businesses will be invited to share their career.

F790 ACE First Year Experience 1 Semester - 1 Credit (HHS) 1 Semester - 3 Credits (CCC) FYEX 1000 First Year Experience

This full credit course facilitates intellectual and social integration of first year students into the academic community. This course provides specific methods and strategies which students may adopt to promote personal growth and success both in the college environment and throughout life. Course Objectives: demonstrate knowledge of college policies/procedures and the available resources on their prospective campus; demonstrate knowledge and skill in balancing freedom with responsibility and control; utilize specific learning skills techniques and strategies which include learning styles, memory strategies, note-taking skills, active reading, test-taking strategies, and critical thinking; demonstrate the impact of time management skills upon academic success by planning ahead and determining time constraints; assess and articulate personal strengths through such methods as setting goals, values clarification and applying personal expectations; recognize the impact of physical/emotional health upon academic success; exhibit competence in career exploration and selection; examine job search strategies such as resume writing and interviewing skills; demonstrate knowledge of personal finance and budgeting techniques.

See page 6 for additional information regarding credit through Corning Community College.

MATHEMATICS DEPARTMENT

D543 Algebra 1

1 Semester -1 Credit

This course is designed to strengthen the algebra skills of students who wish to take Algebra 1R. Basic algebra skills are reinforced to prepare students and ease the transition into Regents Algebra 1. A department prepared final exam will be administered.

D552 Algebra 1R

1 Semester - 1 Credit

This course deals with five conceptual categories associated with the New York State Common Core Learning Standards for Mathematics. The categories are Number and Quantity, Algebra, Functions, Modeling, Statistics and Probability. This course requires students to have an understanding of the different function families and how they are used to solve problems and investigate applications. Algebra 1 Regents Exam will be given at the conclusion of this course.

Recommendation: A final average of 85 or above in Math 8 or successful completion of Algebra 1. A graphing calculator is recommended.

D643 Geometry

1 Semester -1 Credit

This course is designed to introduce the student to geometric concepts. The connection between algebra and geometry is introduced and enhanced. Standard elements of geometry with an emphasis on logical reasoning and proof are explored. A department prepared final exam will be administered.

Prerequisite: Successful completion of the Algebra 1R course.

D652 Geometry R

1 Semester 1 Credit

This course is based upon the six domain categories associated with the New York State Common Core Learning Standards for Mathematics. The categories include Congruence, Similarity, Right Triangles and Trigonometry, Expressing Geometric Properties with Equations, Geometric Measurement and

Dimensions, and Modeling with Geometry. This course requires students to use deductive reasoning and supporting theorems to prove numerous geometric concepts. The New York State Geometry Regents Exam will be given at the conclusion of this course.

Prerequisite: Successful completion of the Algebra 1R course and Regents Exam.

Recommendation: A final average of 85 or above in Algebra 1R or a passing grade in Geometry.

D742 Algebra 2

1 Semester - 1 Credit

The goals of this course are to strengthen the algebra skills of students who intend to take Algebra 2. Additional topics such as complex numbers, functions, statistics, and logarithmic and exponential functions will be discussed. A department final will be administered.

Prerequisite: Successful completion of the Algebra 1R and Geometry R courses.

D752 Algebra 2R

1 Semester - 1 Credit

This course deals with five conceptual categories associated with the New York State Common Core Learning Standards for Mathematics. The categories are Number and Quantity, Algebra, Functions, Modeling, Statistics and Probability. This course is a continuation of the skill set taught in Algebra 1R. The study of function families will be expanded to include: polynomial, absolute value, rational, radical, trigonometric, exponential and logarithmic functions. The New York State Algebra 2 Regents exam will be given at the conclusion of this course.

Prerequisite: Successful completion of the Algebra 1R and Geometry R courses.

MATHEMATICS DEPARTMENT

Recommendation: A final average of 85 or above in Algebra 1R and Geometry R and, if the Algebra 2 course was taken, a passing grade in Algebra 2. A graphing calculator is recommended.

D841 Pre-Calculus Skills

1 Semester - 1 Credit

This course is designed to prepare students for the rigors of basic college mathematics. The course content includes polynomial equations, conics, trigonometry, vectors, complex numbers, and logarithmic and exponential functions. A department prepared final exam will be given.

Prerequisite: Successful completion of Algebra 1R, Geometry R, and Algebra 2R.

D850 Pre-Calculus

1 Semester - 1 Credit

This course is designed to assist math students in orientation and transition to college level math. Algebra is continued from Algebra 2/Trigonometry with emphasis on advanced math topics. The course content includes rational expressions, polynomial equations, trigonometry, analytical geometry, vector analysis, matrices, conics, and the complex and polar number systems. A department final will be administered.

Prerequisite: Successful completion of Algebra 1R, Geometry R, and Algebra 2R.

Recommendation: A final grade of 85 or above in Algebra 2R.

D851 Introduction to Programming

1 Semester -1 Credit

This course will cover the fundamental concepts of computer programming. Students will apply the fundamental concepts in three different programming languages: TI Basic, Game Maker, and Java. The majority of the course work will be structured labs in which the fundamental concepts are used to solve a variety of practical and theoretical programming problems. The course is designed for students with a strong background in mathematics that would like a solid foundation in computer programming.

Prerequisite: Successful completion of Algebra 2 or concurrent enrollment in Algebra 2R.

D890 College Calculus I ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

MATH 1610 - Calculus I

This course is the first in a two course sequence. The course is designed to further enrich the student's mathematical background with the possibility, if the student qualifies, to accelerate his or her college math courses. College Calculus uses the direct, in-depth intuitive approach to absolute value, relations, functions, graphs, limits, continuity, differentiation and integration and their applications to algebraic and trigonometric functions. Students will be expected to complete computer based labs. A department final will be administered.

See page 6 for additional information regarding credit at Corning Community College.

Prerequisite: Successful completion of Pre-Calculus.

Recommendation: A final average of 85 or above in Pre-Calculus.

D891 College Calculus II ACE

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

MATH 1620 - Calculus II

This course is the second of a two course sequence. The course further investigates the concepts learned in College Calculus I in addition to exploring conic sectionalism (analytic geometry), infinite series, and exponential, transcendental, and logarithmic functions. Students will be expected to complete computer based labs. A department final will be administered.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Successful completion of College Calculus I.

MUSIC DEPARTMENT

H450 Concert Band

2 Semesters - 1 Credit

Concert Band is a large instrumental ensemble consisting of wind and percussion instruments, open to students in grades 9-12. Students comprehensively study various styles of band literature while focusing on musicianship and technique. Concert Band is a full year course that meets daily for 40 minutes. Students also attend lessons once every six school days in order to receive credit. Three to four mandatory concerts are given yearly. Additional opportunities such as marching band, pit orchestra, Harmony Bridge, jazz band, NYSSMA, and others are frequently available to students in Concert Band. Students receive a numerical grade and one fine arts credit upon successful completion.

H650 Wind Ensemble

2 Semesters - 1 Credit

Wind Ensemble is a smaller, select ensemble open to wind and percussion students in grades 9-12 by audition only. Students comprehensively study various styles of band literature while focusing on musicianship and technique. Wind Ensemble is a full year course that meets daily for 40 minutes. Students also attend lessons once every six school days in order to receive credit. Three to four mandatory concerts are given yearly. Additional opportunities such as marching band, pit orchestra, Harmony Bridge, jazz band, NYSSMA, and others are frequently available to students in Wind Ensemble. Students receive a numerical grade and one fine arts credit upon successful completion.

H500 Orchestra

2 Semesters - 1 Credit

Orchestra is a large instrumental ensemble open to all string players in grades 9-12. Students comprehensively study various styles of orchestral literature while focusing on musicianship and technique. Orchestra is a full year course that meets daily for 40 minutes. Students also attend lessons once every six school days in order to receive credit. Three to four mandatory concerts are given yearly. Additional opportunities such as pit orchestra, NYSSMA, and various chamber groups are frequently available to students in orchestra. Students receive a numerical grade and one fine arts credit upon successful completion.

H000 Chorale

2 Semesters - 1 Credit

Chorale is a large vocal ensemble which is primarily for students in grade 9, but is open to all students. A majority of literature studied is in three-part SAB harmony, however some pieces may be in four-part SSAB or SATB harmony. Students will study a variety of choral literature and styles while learning proper singing techniques and developing choral musicianship. Chorale is a full-year course that meets every day for 40 minutes. Three to four mandatory concerts are given yearly. Students have a number of extra-curricular opportunities frequently available including small groups, the Pops concert, and NYSSMA participation. Students receive a letter grade and one fine arts credit upon successful completion.

H600 Concert Choir

2 Semesters - 1 Credit

Concert Choir is a large vocal ensemble consisting of students in grades 10-12. Most literature performed will be in four-part SATB harmony. Students will study a variety of choral literature and styles while learning proper singing techniques and developing choral musicianship. Concert Choir is a full year course that meets every day for 40 minutes. Three to four mandatory concerts are given yearly. Students have a number of extra-curricular opportunities frequently available including small groups, the Pops concert, and NYSSMA participation. Students receive a letter grade and one fine arts credit upon successful completion.

H015 Voice Class 1

1 Semester - 1/2 Credit

In Voice Class students will learn the basics of vocal technique and sound production. Students will learn individual songs and develop listening skills by observing other singers and assessing specific

MUSIC DEPARTMENT

vocal techniques. Assessments come directly from state guidelines and the NYSSMA manual. Class is structured for group and individual work, often being assessed by peers. The teacher will work with students in a group setting and one-on-one. Voice Class is open to students in grades 9-12 and no prior musical knowledge is necessary. Classes meet for 80 minutes every other day. Students receive a numerical grade and one-half elective credit upon successful completion.

H010 Intro Guitar 1 Semester - 1/2 Credit

Introduction to Guitar is an engaging, performance-based class geared toward beginners. Focus is on using correct posture, note-reading, rhythmic patterns, chord study, finger-picking styles, musical forms, and performing experiences. Class meets every other day for 80 minutes and is open to all students in grades 9-12 and no prior musical knowledge is necessary. Guitars and books are provided. A final exam is required. Students receive a numerical grade and one-half elective credit upon successful completion.

H011 Piano Class 1 Semester - 1/2 Credit

In Piano Class students will learn the basics of piano technique. Students will study basic music theory and learn individual songs. Class is structured for group work and to allow students to move forward at their own pace. No prior musical knowledge is necessary. The effective use of practice time will allow a more efficient progression in the class. Class is open to all students in grades 9-12 and meets for 80 minutes every other day. You receive a numerical grade and one-half elective credit upon completion.

H012 Musical Theatre Workshop 1 Semester - 1/2 Credit

Students will dive into the world of musical theatre, learning about the music, composers, structure, stories, and history of theatre. Students may choose to sing at times in this class, and develop their writing skills by creating synopses of various musicals. Several examples of musicals will be shown to represent a variety of styles and time periods, from classics to modern works. This course is open to students in grades 9-12 and no prior musical knowledge is necessary. Class meets every other day for 80 minutes. Students receive a numerical grade and one-half elective credit upon successful completion.

H017 Foundations of Musicianship 1 Semester - 1/2 Credit

Foundations of Musicianship explores various aspects of music, including units in music theory and history, listening discussions, and learning about music from cultures around the world. An emphasis will be placed on expanding the student's music vocabulary and analytical music skills. The course will contain projects centered on the student's musical interests. Foundations of Musicianship meets every other day for 80 minutes. This class is open to students in grades 9-12 and no prior musical knowledge is necessary. A final exam is required. Students receive a numerical grade and one-half elective credit upon successful completion.

H018 World Music Drumming 1 Semester - 1/2 Credit

World Music Drumming is an engaging, performance-based class in which students will gain a broad understanding of various cultures' use of percussion instruments. Areas of exploration include traditional African and Arabic drumming, Latin percussion, orchestral percussion, and marching percussion. You will learn to play instruments such as the djembe, dombek, conga, marimba, and snare drum. The class meets every other day for 80 minutes, open to students in grades 9-12, and no prior musical knowledge is necessary. A final exam is required. Students receive a numerical grade and one-half elective credit upon successful completion.

PHYSICAL EDUCATION DEPARTMENT

N010 Physical Education (1st Semester)
N010 Physical Education (2nd Semester)

1 Semester – ½ Credit
1 Semester – ½ Credit

9th Grade

Students in 9th grade will receive a core program based on the philosophy that a physically educated student needs the experience of a wide variety of activities before their sophomore year. All 9th graders will receive the exact same activities over their freshman year. The emphasis of this course will be on developing and improving skills and will be supported by both skill and cognitive assessments.

Activities include Ultimate Frisbee, Kayaking, Basic Swim, Strength Training, Spinning, Softball, Golf, Basketball, Badminton, Tennis, Pickleball, Adventure Learning, Self – Defense, Soccer, Football, Rugby, Archery, Dance, functional training, Aerobic activities and Yoga (*activities may vary based on facilities*).

10th – 12th Grade

Students in 10th through 12th grades will receive a program that is elective based, with each grouping having a particular theme. The emphasis of this course will be on demonstrating competency and proficiency and will be supported by assessments. Students will be required to take four different electives over the course of their junior and senior years. One fitness elective is mandatory and will be completed their sophomore year (the mandatory fitness elective will include an aquatics unit).

Adapted Physical Education

Those students with permanent physical conditions will participate in a program adapted to their individual needs.

First Semester Electives:

Dance and Cardio

This elective would include learning various dances as well as fitness activities such as Aerobics, Spinning, Kickboxing, Zumba, and Yoga.

Team A (Activities may vary based on facilities)

Flag Football	Speedball
Softball	Floor Hockey
Water Polo	Handball

Lifeguarding/Athletic Training

Students will become certified in CPR for the Professional as well as Lifeguarding. Students will learn introductory athletic training concepts and skills. Students MAY also participate in outdoor activities (ie. Golf, Ultimate Frisbee, etc.)

Recreational/Leisure Sports (Activities may vary based on facilities)

Canoe/Kayak	Golf
Bowling (\$25 fee)	Dance
Frisbee	Softball

PHYSICAL EDUCATION DEPARTMENT

Sports Education

The sports education elective has several distinctive characteristics such as seasons, team affiliation, formal competition, and a culminating event that provides an appropriate climax to the end of the competitive season. (*Highly competitive elective*)

Second Semester Electives:

Fitness for Life (Fitness Elective)

This course will emphasize individual fitness through a variety of activities. You will learn about each type of fitness and which physical activities are best for developing them. You will also learn how physical activity and other healthy lifestyle choices improve your health and wellness as well as your physical fitness.

Team B (Activities may vary based on facilities)

Basketball	Volleyball
Handball	Touch Rugby
Ultimate Frisbee	Soccer

Adventure Learning

This class is based on adventure activities. Fitness activities and pool activities would be included. Course may also include trust initiatives, cooperative learning and problem solving, games, hiking, kayaking.

Outdoor Experience

Archery	Kayaking/Canoeing
Fly Fishing	

May also include other activities (ie Snowshoeing, orienteering, hiking etc)

Golf/Racket Sports

Badminton	Bowling (\$25 fee)
Golf	Pickleball
Tennis	Nitroball

Personal Fitness Plan

Each Junior and Senior is expected to complete a required Personal Fitness Log during the semester they are not enrolled in Physical Education. This plan requires that each student log at least 10 days of physical activity each marking period during the semester that they are not enrolled in Physical Education. To receive a Passing grade in the course a student must receive a passing grade in three of the four marking periods. The Fitness Log is to be completed online using the ToolBox Pro program. A more detailed look at the requirements and grading procedure of the personal fitness plan is available on the school website: <http://www.horseheadsdistrict.com/hs/hsphysedfitnessplan.html>

SCIENCE DEPARTMENT

C541 General Science

1 Semester - 1 Credit

This course is designed to help students adjust to the rigor of high school science especially the demands of Regent's science courses. It will offer help in the areas of note taking, organization, study skills, and test taking skills. The course starts with the basic overview of science in general. The course will then cover introductory topics in Life Science, Physical Science, Earth Science, Astronomy, and Space Exploration. This course is designed to help students learn to deal with lab requirements and deadlines. The course will present basic vocabulary and introductory knowledge of each of these sciences. The students will learn to deal with intensive scheduling, especially in a science environment and learn to adapt to the overall pace that most science classes have at the high school level. After this class students should be able to move on to a Regents Earth Science class or a Regents Biology class.

C550 Earth Science

1 Semester - 1 Credit

This beginning course is designed to introduce students to the study of planet Earth's systems and its location in the universe; to develop an appreciation of the interrelationships between Earth's atmosphere, hydrosphere, geosphere and biosphere; and to understand the Earth scientist's role in meeting society's ever increasing need for natural resources and the basics of good stewardship of such natural resources. This course will also assist the student in developing the scientific skills and literacy that will benefit them in subsequent science courses. Evaluation is based on Unit tests, quizzes, assignments, class participation, New York State required laboratory experience and the Regents Exam.

C640 General Biology

1 Year - 1 Credit

General Biology is designed for non-science majors who would require a high school biology course. This course is intended for the average student whose interests and goal may be different from those who take the Regents Biology course. The course consists of five basic topics: Life Functions; Systems of the Human Body; Continuation of Life; The Green Plants; and Classification and Evolution.

Classes meet one period daily. Evaluation is based on quizzes, assignments, class participation, laboratory experience, and unit tests. A school examination is given at the conclusion of the course.

C641 Astronomy/Historical Geology

1 Semester - 1 Credit

Astronomy is designed for the student who is interested in space exploration, planetary characteristics, and stars. It is the intent of the course to discuss and discover basic astronomical concepts and observe how they relate to potential jobs in the field of astronomy. The course requires various trips which demonstrate classroom concepts in the "real world". Experiences utilizing a "planetarium" will also be included. Evaluation is based on quizzes, tests, assignments, class participation, trip participation, and a final exam.

Historical Geology is designed to acquaint the student with the geological history of North America, particularly that of New York State. This would include major groups of fossil organisms, their evolutionary history, and patterns of distribution. The course will also introduce students to methods of geological investigation within the framework of major theories prevailing in the field. Evaluation will be based on lab work, discussion, a comprehensive paper, quizzes, and a final exam.

Recommended: Earth Science

SCIENCE DEPARTMENT

C650 Living Environment (Biology) 1 Semester -1 Credit

The Regents Biology program is a performance-based course intended for those students who have an interest in biological science. It is the intent of the course to provide students with an awareness of living organisms including their morphology, physiology, anatomy, behavior, origin, and distribution through an inquiry-based approach. The course consists of a basic core of seven themes: Unity and Diversity of Life; Evolution; Homeostasis in Organisms; Human Physiology; Reproduction; Heredity; and Ecology. Evaluation is based on quizzes, assignments, lab experience, unit tests, and the Regents Exam.

C740 General Chemistry 1 Semester - 1 Credit

General Chemistry is a study of similarities and dissimilarities of matter. Substances are prepared and separated. The mathematics of chemistry has been de-emphasized and replaced by a practical approach to the study of chemistry for the average student. The final exam is a local exam prepared by the teacher.

C750 Chemistry 1 Semester - 1 Credit

This course is an intensive study of matter: the properties, uses, and changes that different kinds of matter undergo. Modern theory and principles and their applications through experimentation, understanding of the elements, calculations, solutions, metals, and nonmetals along with nuclear and organic chemistry are also covered. It is strongly recommended that students complete Geometry before taking Regents Chemistry. Students should expect at least a half hour of homework nearly every night. It is expected that students will be able to solve algebraic expressions and complex word problems. Evaluation is based on quizzes, assignments, class participation, lab experience, unit tests, and the Regents Exam.

Prerequisite: Algebra 1R

Recommendation: Successful completion of Geometry R

C752 North American Wildlife 1 Semester - 1 Credit

This course will deal with an in depth look into the world of our North American wildlife. Students will study the behaviors, habitat, diet, mating, history, range, abundance, and ecological importance of some of our most interesting wildlife. CD-ROM, video, discussion, reading, and writing will be some of the teaching techniques used.

Prerequisites: Two years successful completion of any core curriculum science classes (i.e., Earth Science, Biology, Chemistry, Physics).

C840 General Physics 1 Semester - 1 Credit

The aim of general physics is to provide a humanistic approach to the study of physics in which fundamentals are developed. It is designed for those students not majoring in science in college who wish to learn more about the scientific aspects of the world they live in. The content emphasizes laboratory activities and is divided into several basic core areas: motion, sound and light, electricity and magnets. Evaluation will be labs, problems, and tests.

C850 Physics 1 Semester - 1 Credit

Regents Physics is a laboratory based course that grants Regents credit. Topics covered are Mechanics, Motion In a Plane, Work and Energy, Electricity and Magnetism, Wave Phenomena, and Modern Physics. The emphasis on laboratory projects and physical reasoning will help students develop critical thinking skills. Students will take the Regents Exam. Evaluation is based on quizzes, assignments, class participation, lab experience, unit tests, and the Regents Exam.

Prerequisite: Regents Chemistry

Recommendation: Successful completion of Algebra 2R.

SCIENCE DEPARTMENT

C851 Anatomy & Physiology

1 Semester - 1 Credit

Anatomy and Physiology is designed for high ability senior students. It is an intensive study of anatomy, physiology, and genetics such as might be found in freshman college courses. This course is of particular value to students entering nursing and other health related fields. Classes meet daily. Students are also expected to read articles from current literature. Student grades are determined from general classroom performance, topic quizzes, and major unit tests. A final examination is given at the end of the course.

Prerequisite: Regents Biology and Regents Chemistry

C890 ACE Biology I

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

BIOL 1510 - General Biology I

And

C891 ACE Biology II

1 Semester - 1 Credit (HHS)

1 Semester - 4 Credits (CCC)

BIOL 1520 - General Biology II

The ACE Biology course is the first year of college biology. The ACE course should be taken only after the successful completion of the Regents Biology and Chemistry courses. Some students may choose to complete the AP exam. Evaluation is based on chapter quizzes, lab practicums, hourly exams, an individual research project (second semester), and a final exam.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Regents Biology and Regents Chemistry

C893 ACE Chemistry I

1 Semester - 1 Credits (HHS)

1 Semester - 4 Credits (CCC)

CHEM1510 - General Chemistry I

And

C894 ACE Chemistry II

1 Semester - 1 Credits (HHS)

1 Semester - 4 Credits (CCC)

CHEM 1520 - General Chemistry II

The ACE Chemistry I course is the first year of college chemistry. The ACE course should be taken only after the successful completion of the Regents Chemistry course. It is highly desirable that a student has a course in secondary school physics and a four year college preparatory program in mathematics. Principles of chemistry and its quantitative aspects will be studied. Stoichiometry, characteristics of matter, structure and bonding, elementary thermochemistry, solutions, equilibrium, thermodynamics, and electrochemistry are also topics that will be studied in a full contact lab setting. Descriptive chemistry is integrated throughout the course.

A comprehensive final is given at the end of ACE Chemistry I. The American Chemical Society exam is used as a comprehensive final at the end of ACE Chemistry II. The final grade is determined by exam grades, quiz grades, lab grades, lab exams, and the final exams. A student may opt to challenge the AP exam in Chemistry in May. See page 6 for additional information regarding credit through Corning Community College.

Prerequisite ACE Chem I: Regents Chemistry, Algebra 2/Trigonometry

Prerequisite ACE Chem II: ACE Chem I

SCIENCE DEPARTMENT

C892 ACE Physics

1 Semester - 1 Credit (HHS)
1 Semester - 4 Credits (CCC)
PHYSICS 1820 - Physics I

The ACE Physics course is designed to be the equivalent of a general physics, calculus based, course usually taken during the final semester of college. Classes meet daily. A school examination is given at the conclusion of the course. The evaluation is based on problem sets, lab work, tests, periodic quizzes, and 10 week exams.

See page 6 for additional information regarding credit through Corning Community College.

Prerequisite: Regents Physics and ACE Calculus or concurrent enrollment in ACE Calculus

C010 Marine Biology

1 Semester - 1/2 Credit

The emphasis of this course will be the impact of humans on the ecology of the marine ecosystem, especially that of the tropical regions and coral reefs. The objective of this course will be to develop an understanding of marine biology. Such an understanding is fundamental to the appreciation, preservation, and protection of marine environments worldwide. This course will emphasize the connection between marine systems, biological processes, and global health by building a working knowledge of what the field of marine biology emphasizes.

Topics to be covered in this course include: salt water marshes and estuaries; mangroves, sea grass beds, and tropical lagoons; coral reefs and associated marine communities; intertidal zones and tidal communities; and oceanic pelagic biome. Evaluation will be based upon periodic exams and short quizzes. Essays will also be assigned to help develop scientific literacy.

This course is open to grades 10 – 12.

Prerequisite: Regents Biology or General Biology

C011 Zoology

1 Semester - 1/2 Credit

The emphasis of this course will be to study animal biology. The overall objective of this course will be to explore the vast diversity present in the animal kingdom. This course requires students to learn and use complex scientific English and Latin.

The course will be divided into two major units: Invertebrate and Vertebrate Zoology. Evaluation will be based on periodic exams and short quizzes as well as short essays to help develop scientific literacy. This course is open to students in grades 10 – 12.

Prerequisite: Regents Biology or General Biology

C012 Forensic Science

1 Semester - 1/2 Credit

This course is designed to provide students the opportunity to learn about the forensic crime scene investigation and the processing of evidence. Students will apply skills from a variety of content areas including math, technology, psychology, biology, chemistry, and physics. This inquiry based course will engage students in a series of investigations which allow them to experience techniques found in real forensics labs, analyze crime scene evidence, and conduct case studies of actual crimes when appropriate.

Prerequisite: Passing grades in a Regents level science class and a Regents level math class.

SOCIAL STUDIES DEPARTMENT

B043 Criminal Justice

1 Semester - 1 Credit

This course includes the study of the legal system. Included in this study would be an analysis of the court systems, theories of crime, penal law, the trial, and the corrections system. Also included is a study of criminal substantive law. Such discussion would include topics such as arson, murder, robbery, organized crime, larceny, burglary, child abuse, and their defenses. There are movies, videotapes, and speakers where appropriate. The course will have unit exams and a final.

B046 American Civil War

1 Semester - 1 Credit

The American Civil War examines the era of the American Civil War with emphasis on the period 1861 – 1865, four years during which the United States endured its greatest national trauma. The course combines lectures, readings and films to address such questions as why the war came, why the United States won (or the Confederacy lost), and how the war affected various elements of American society. The principal goal of the course is to provide students with an understanding of the scope and consequences of the bloodiest war in our nation's history - - a war that claimed more than 650,000 lives, freed nearly 4,000,000 enslaved Blacks, and settled definitively the question of whether states had the right to withdraw from the Union. The course also will convey sense of what was left unresolved at the end of the conflict, most notably the question of where former slaves would fit into the social and political structure of the nation.

Leading participants on both sides will receive extensive attention. Interspersed among discussions of military and non-military aspects of the war will be biographical sketches of Abraham Lincoln, Robert E. Lee, U.S Grant, Frederick Douglass, Thaddeus Stevens, and several dozen other prominent figures. Although this is not a course on Civil War battles, and general, about half of the time in class will be devoted to military affairs. It is impossible to understand the broad impact of the era without a grasp of how campaigns and battles shaped attitudes and actions on the home front, and there will be a special effort to tie events on the battlefield to life behind the lines.

In a larger sense, the issues that divided the nation during the era of the Civil War continue to resonate in modern America. The American Civil War will seek to make those issues clear, while at the same time providing a sense of the drama and tragedy of this tumultuous period in the life of the nation.

Open to students in 9th - 12th grade.

B051 Critical Issues/World at War

1 Semester - 1 Credit

This course is an in depth look at major wars that have shaped our world today. The course will look at World War I and II, the Russian Revolution, the Korean War, and the Vietnam War just to name a few. As the world becomes increasingly more interdependent, it is important to look at the influence that these events have had on the lives of people and nations as a whole. Study will deal with the concepts of genocide, nationalism, the "collapse of communism", the situation in the Middle East, and many others.

Evaluation will be based on class participation, projects, a semester journal, quizzes, tests, and a final exam.

B053 Introduction to Psychology

1 Semester - 1 Credit

Introduction to Psychology will introduce students to the field of Psychology. The course is designed to reflect the five broad content areas (domains) as defined by the American Psychological Association. Course work will include an introduction to research methods, the study of motivation and emotion, personality, learning, memory and psychological disorders. The class will consider the evolution of various psychological theories and the different ways that behavior is

SOCIAL STUDIES DEPARTMENT

affected by environment, society and developmental changes in a person's life. Evaluation is based on traditional testing, classroom experiments, web-based activities, movie analysis and a variety of other projects that will be of interest to high school students.

B040 Geography: Political & Cultural

1 Semester - 1 Credit

This course is designed to help 9th grade students (selected by teacher recommendation) understand the concepts of geography and the world in which we live. Instruction will focus on the regions of the world, including a study of culture, history and government of each area. This course will use a variety of authentic and performance assessments, including manipulation of geographic tools, maps and related equipment. Students will understand the significance of historical events which helped to develop the culture of the regions we will be studying and connect current events to understand how people interact in today's global community. This course is designed to help students become better prepared to handle the world in which they live and prepare them for future course work in Global Studies I, II and American Studies.

B550 Global History & Geography I

1 Semester - 1 Credit

Global History I is the first course in the Social Studies sequence which is organized in a chronological fashion.

The goal of the Global History program is to demonstrate the common features that are instrumental in shaping world civilization. Evaluation is based on quizzes, unit tests, projects, class participation, and a final examination.

B650 Global History & Geography II

1 Semester - 1 Credit

The Global History II course is the second course in a Social Studies sequence. The course continues the chronological approach begun in Global History I. The concept of interdependence and the accelerated frequency of interactions among nations and people is a primary focus of this course. Evaluation is based on quizzes, unit tests, projects, class participation, and the Regents Exam.

B680 AP World History

2 Semesters - 2 Credits

This year long course is a college level introduction to world history. The class will be offered to tenth grade students in lieu of Global History and Geography I & II. Students should be aware that the course meets the requirements of the College Board's Advanced Placement curriculum and New York State Regents curriculum for Global History and Geography. The course will be graded on a collegiate level as college credit may be obtained through the Advanced Placement test. All students in the course will be required to take the Advanced Placement test in May as well as the Global History & Geography Regents Exam in June.

The course will cover historical content from around the world from approximately 10,000 BCE until the modern age. Within the course students can expect to explore key historical themes, philosophies, dates, and personalities. Upon completion of the course students should be able to make educated comparison of historical content as well as apply content to current situations throughout the world. Students may expect significant outside reading to compliment the material of the course. Writing will also be a critical component of the course as it is a significant part of the AP test and the Regents Examination. Students will have a summer reading and a paper. The New York State Global History and Geography Regents Exam is the final exam for this course.

Prerequisite: English 9

SOCIAL STUDIES DEPARTMENT

B750 American Studies Regents

1 Semester - 1 Credit

American Studies is a chronological approach to the development of the nation's history. Emphasis is placed on American government and politics and United States history since 1865. Outside readings which include historical documents and periodicals are used to develop the student's ability to solve meaningful problems in history.

Evaluation is based on class participation, quizzes, unit tests, term papers, and the Regents Exam.

B780 AP United States History

**2 Semesters - 1 Credit
A/B Schedule**

This class is offered in conjunction with American Voices. This college level course is offered for gifted juniors. There is a strong emphasis on concepts and historical analysis through an intensive reading and writing program. The course covers American history from colonial times to the present. Students are prepared and required to sit for the AP Exam offered in May as well as the Regents Exam. The New York State US History Regents Exam is the final exam for this course.

B850 Economics/Participation in Government

1 Semester - 1 Credit

The course emphasizes an understanding of economic concepts and citizenship. The students examine various elements that comprise micro-economics: supply and demand, income and spending, price structure, market structure, and economic institutions. The macro-economic picture is examined to help the student understand how various components of an economy work together: tax structure, fiscal policy, monetary policy, debts and deficits, unemployment, inflation, GNP, and international economics.

The course emphasizes an understanding of the federal, state, and local government structures and the role of citizenship. Students thoroughly examine the three branches of government and the influence of special interest groups, constituents, and political parties. They look at their personal role as a citizen and research how their views can be influential when proper channels are taken. The course emphasizes an understanding of the school board structure.

Evaluation is based on regular notebook checks, various individual projects, and tests.

B881 AP U.S. Government & Politics/B882 AP Comparative Gov't & Politics

2 Semesters - 2 Credits (HHS)

2 Semesters - 3 Credits (CCC)

GOVT 1010 - Am Fed Gov't

This is a year-long course which allows students to take both AP U.S. Government and Politics and AP Comparative Government and Politics. These two college level courses meeting in a single class period on an A/B schedule also meets the 12th grade Social Studies graduation requirement. These courses share foundational content on the topics of sovereignty, authority and power, political institutions, citizens, society and the state along with political and economic change. AP US Government and Politics focuses on the politics of the United States of America. AP Comparative Government and Politics focuses on methods of comparing the politics of China, Russia, Iran, Great Britain, Nigeria, and Mexico. It is designed to be as fluid as the world in which we live and provides the student with a global perspective. Students are required to take both the AP exams in May.

See page 6 for additional information regarding credit through Corning Community College.

SOCIAL STUDIES DEPARTMENT

B890 ACE Principles of Economics

1 Semester - 1 Credit (HHS)

1 Semester - 6 Credits (CCC)

ECON 2001 – Prin of Eco - Macro

ECON 2002 – Prin of Eco - Micro

This course is a study of both the principles of Micro and Macro Economics. Macro Economics would entail the study of supply and demand, national income accounting, the tax structure, the business cycle, unemployment and inflation, and fiscal and monetary policy analysis.

Micro Economics would entail the study of price elasticity of demand and supply, utility theory, production cost analysis, profit maximization of the firm, market structure and antitrust, labor organization, international trade and finance, and the economics of growth and development.

Satisfies the 12th grade Social Studies requirement.

See page 6 for additional information regarding credit through Corning Community College.

TECHNOLOGY DEPARTMENT

L040 Transportation & Energy

1 Semester - 1 Credit

Students will create engineering based problem solving projects. Included will be energy conservation and rocketry. Students will research a topic related to energy or modern transportation developments and prepare and present a PowerPoint to the class.

L041 Communication Systems

1 Semester - 1 Credit

Students will study and produce computer based projects. The class is designed to give students an overview of many different types of computer software and their uses. Upon completion students will have a better working knowledge of different software applications and how they can use them in their everyday life. Projects will be designed for the following software applications: Adobe: InDesign, PhotoShop, Illustrator, Flash, Premiere; and the MicroSoft Office Package.

L042 Productions & Residential Structures

1 Semester - 1 Credit

Students will learn about everything necessary to build a home. Foundations, Framing, Sheathing, Roofing, Electrical wiring and plumbing will all be covered. Students will wire common circuits, build a model and construct a storage shed in this class. The shed will be sold to a community member for the cost of the materials.

L043 Design & Drawing for Production

1 Semester - 1 Credit

Students will use industry standard 3D solid modeling software to facilitate the design and documentation of their solutions to design problems and challenges. As the course progresses and the complexity of the design problems increase, students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving. The initial focus of the class will be on the element of design creativity, while addressing functional and aesthetic requirements of the products. Students will also learn a variety of mechanical drawing techniques in an effort to prepare them to be effective graphic communicators in a technical society. Various types of drawings will be incorporated into design challenges including orthographic projections, pictorials, sections, and auxiliary views. Each of these types of drawings will be integrated into activities that primarily focus on the production of exciting, real world products. The class will culminate with designing and 3d printing the final solutions.

L044 Broadcast & Video Production

1 Semester - 1 Credit

Students will learn how create videos using professional video editing software. Student grades will be based on 50% projects, 30% quiz and 20% homework. Projects will include commercials, humor/skits, movie trailers, music videos and more.

L011 Furniture & Cabinet Making

1 Semester - 1/2 Credit

This is an introductory woodworking class. Students will select a project, generate a set of plans and build the item. We will cover material properties, safe use of machine tools, advanced assemble methods and finishing. Materials available are oak, cherry, maple and walnut.

L013 Flash Animation

1 Semester - 1/2 Credit

Students will use Flash Animate to make 2D computer animations. Class work will demonstrate different aspects of computer animation. The course is all project based with 70% of the grade coming from being able to use the program. The other 30% is based on creativity. Projects include animated stories, web pages and games.

TECHNOLOGY DEPARTMENT

L018 Robotics

1 Semester – 1/2 Credit

This is a beginning course in robotics. Students will utilize robots and virtual software. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building, and programming of robots. Students will work hands-on, in teams, to design, build, and program robots to complete certain tasks. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, decision-making, timing sequences, and binary number systems. Student designed robots will be programmed to compete in various activities.

L091 ACE Graphics for Engineers (3-d CAD)

1 Semester - 1 Credit (HHS)

1 Semester – 3 Credits (CCC)

ENGR 1030 Graphics for Engineers

Offered 2018-2019

Students will use SolidWorks to create 3-d objects. Students will then learn how to layout their 3-d object in orthographic projections and dimension them using current engineering drafting standards. Types of drawings to include: Auxiliary Views, Section Views, Assembly, Detail Drawings and Design Concepts.

See page 6 for additional information regarding credit through Corning Community College.

L094 ACE Engineering Orientation

1 Semester - 1 Credit (HHS)

1 Semester – 2 Credits (CCC)

ENGR 1010 Engineering Orientation

Offered 2019-2020

Students will study and learn about the different engineering career opportunities. The course involves statistics, design solutions, and problem solving. Many projects are real life projects where students will problem solve, design, and produce a solution. The focus will be on the big five engineering fields: Mechanical, Electrical, Industrial, Civil, and Architectural.

See page 6 for additional information regarding credit through Corning Community College.

Technology Education

Sequence & Graduation Requirements

	CCC College Credits	Fine Art Credit	3 rd Year Math or Science Credit	Foundation	Systems	Elective
College Engineering						
ACE Engineering Orientation	2					1 Unit
ACE Graphics for Engineers	3					1 Unit
Full Credit Electives						
Communication Systems				½ Unit	½ Unit	
Productions & Residential Structures					½ Unit	½ Unit
Transportation & Energy				½ Unit	½ Unit	
Broadcast and Video Production						1 Unit
Design & Drawing for Production		Yes		1 Unit		
Half Credit Electives		Fine Art Credit	3 rd Year Math or Science Credit	Foundation	Systems	Elective
Flash Animation						½ Unit
Furniture & Cabinet Making						½ Unit
Minimum Units Required For a 5 Unit Sequence				1 Unit Minimum	½ Unit Minimum	1 Unit Minimum